

Application No.: 10/570,159
 Art Unit 1654
 Reply to Restriction Requirement

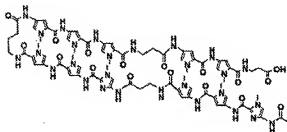
Docket No.: 0152-0725PUS1

4. (Original) The TGF- β gene expression inhibitor according to claim 3, wherein said target region is a double helix region which comprises a part or all of the following base sequence from -544 to -538 (SEQ ID NO: 3) in the hTGF- β 1 promoter, and a complementary strand thereof,

TTCTTAC.

5. (Currently Amended) The TGF- β gene expression inhibitor according to claim 1, wherein said pyrrole-imidazole polyamide is represented by the following formula:

[Formula 1]



wherein the terminal carboxyl group of said pyrrole-imidazole polyamide optionally forms an amide, wherein the amide is optionally bonded to N, N-dimethylaminopropylamine, and

said pyrrole-imidazole polyamide is optionally conjugated to fluorescein-isothiocyanate.

6. (Original) The TGF- β gene expression inhibitor according to claim 5, wherein the terminal carboxyl group of said pyrrole-imidazole polyamide forms an amide.

Author Search

=> FILE HCAPLUS

FILE 'HCAPLUS' ENTERED AT 14:51:22 ON 06 JUL 2009

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FILE COVERS 1907 - 6 Jul 2009 VOL 151 ISS 2

FILE LAST UPDATED: 5 Jul 2009 (20090705/ED)

REVISED CLASS FIELDS (/NCL) LAST RELOADED: Apr 2009

USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Apr 2009

HCAPLUS now includes complete International Patent Classification (IPC) reclassification data for the second quarter of 2009.

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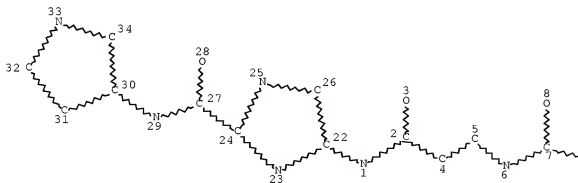
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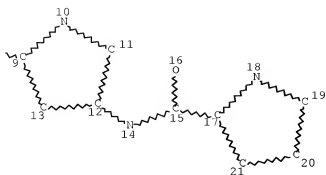
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'OBI' IS DEFAULT SEARCH FIELD FOR 'HCAPLUS' FILE

=> D STAT QUE L17

L7 STR





Page 1-B

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MLEVEL IS CLASS AT 1 2 3 4 5 6 7 8 14 15 16 27 28 29

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 34

STEREO ATTRIBUTES: NONE

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MOST RECENT UPDATE: 200941 <200941/DW>

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>>> IPC, ECLA and US National Classifications have been updated
 with reclassifications to March 15th, 2009.

F-Term and FI-Term original classifications are current and
 reclassification will commence in June.

No update date (UP) has been created for the reclassified
 documents, but they can be identified by
 specific update codes (see HELP CLA for details)<<<

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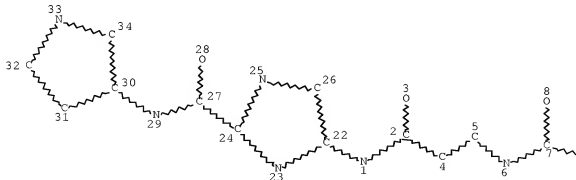
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>>> HELP for European Patent Classifications see HELP ECLA, HELP ICO <<<

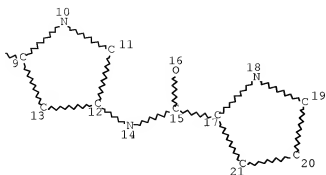
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=> D STAT QUE L21

L7 STR



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Page 1-B

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DEFAULT ECLEVEL IS LIMITED			

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 34

STEREO ATTRIBUTES: NONE

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L15 83 SEA FILE=HCAPLUS SPE=ON ABB=ON PLU=ON KISHIOKA H7/AU
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L20 4 SEA FILE=WPIX SPE=ON ABB=ON PLU=ON L19/DCR
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PROCESSING COMPLETED FOR L21

L26 3 DUP REM L17 L21 (1 DUPLICATE REMOVED)

ANSWER '1' FROM FILE HCAPLUS

ANSWERS '2-3' FROM FILE WPIX

=> D IBIB ABS ED HITSTR 1; D IBIB AB HITSTR 2-3

L26 ANSWER 1 OF 3 HCAPLUS COPYRIGHT 2009 ACS ON STN DUPLICATE 1

ACCESSION NUMBER: 2005:232612 HCAPLUS Full-text

DOCUMENT NUMBER: 142:292558

TITLE: Development of human transforming growth
factor- β 1 gene expression suppressor agents
INVENTOR(S): Fukuda, Noboru; Kishioka, Hirofumi
; Sugiyama, Hiroshi

PATENT ASSIGNEE(S): Nihon University, Japan

SOURCE: PCT Int. Appl., 33 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

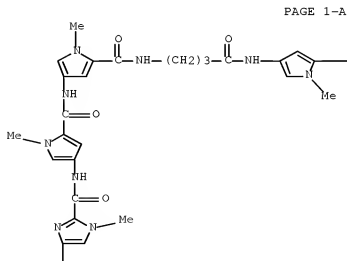
LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

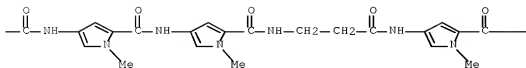
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RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
DE 112004001603	T5	20060706	DE 2004-112004001603	20040903 <--
CN 1845733	A	20061011	CN 2004-80025429	20040903 <--

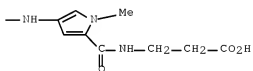
CN	β -Alanine, 4-(acetylamino)-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl- β -alanyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl- β -alanyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl- (9CT) (CA INDEX NAME)
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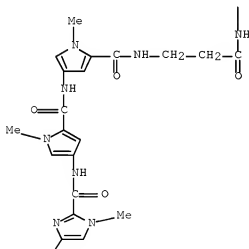
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PAGE 2-A



PAGE 3-A

AcNH

REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L26 ANSWER 2 OF 3 WPIX COPYRIGHT 2009 THOMSON REUTERS on STN
 ACCESSION NUMBER: 2007-343923 [32] WPIX
 DOC. NO. CPI: C2007-125369 [32]
 TITLE: Connective tissue growth factor (CTGF) gene expression inhibitor for treating CTGF associated disease, has pyrrole imidazole polyamide having N-methyl pyrrole, N-methyl imidazole and gamma-aminobutyric acid units B03
 DERWENT CLASS:
 INVENTOR: FUKUDA N; SUGIYAMA H; UENO T
 PATENT ASSIGNEE: (GENT-N) GENTIER BIOSYSTEMS INC; (UYNI-N) UNIV NIPPON
 COUNTRY COUNT: 115

PATENT INFO ABBR.:

PATENT NO	KIND	DATE	WEEK	LA	PG	MAIN IPC
WO 2007034784	A1	20070329	(200732)*	JA	34[6]	
JP 2007536491	X	20090326	(200922)	JA	24	

APPLICATION DETAILS:

PATENT NO	KIND	APPLICATION	DATE
WO 2007034784	A1	WO 2006-JP318512	20060919
JP 2007536491	X PCT Application	WO 2006-JP318512	20060919
JP 2007536491	X	JP 2007-536491	20060919

FILING DETAILS:

PATENT NO	KIND	PATENT NO
JP 2007536491	X Based on	WO 2007034784 A

PRIORITY APPLN. INFO: JP 2005-272137 20050920

AB WO 2007034784 A1 UPAB: 20090407

NOVELTY - A connective tissue growth factor (CTGF) gene expression inhibitor comprises pyrrole imidazole polyamide containing N-methyl pyrrole unit (Py), N-methyl imidazole unit (Im) and a gamma-aminobutyric acid unit, where the pyrrole imidazole polyamide is folded up at the region of gamma-aminobutyric acid, to enable U-shaped confirmation, in which Py/Im, Im/Py and Py/Py pairs correspond to base pairs of target of CTGF promoter.

DETAILED DESCRIPTION - A connective tissue growth factor (CTGF) gene expression inhibitor comprises pyrrole-imidazole polyamide containing N-methyl pyrrole unit (Py), N-methyl imidazole unit (Im) and a gamma-aminobutyric acid unit, where the pyrrole-imidazole polyamide is folded into an U-shaped conformation at the gamma-aminobutyric acid unit site, in a minor groove of a double strand region (being target region) containing a portion or all of the base sequence (SEQ ID Number 2) corresponding to -195 to -150 of human CTGF promoter and a strand complementary to it, and in the folded region, a Py/Im pair corresponds to C-G base pair, an Im/Py pair corresponds to G-C base pair, and Py/Py pair corresponds to A-T base pair and T-A base pair, of the target region.

ACTIVITY - Antiinflammatory; Respiratory-Gen.; Dermatological; Antidiabetic; Ophthalmological.

MECHANISM OF ACTION - CTGF Inhibitor.

In vitro analysis of expression inhibitory effect of connective tissue growth factor (CTGF) messenger ribonucleic acid by pyrrole imidazole polyamide (e.g. GBP2101), was carried out as follows. The human mesangial cell derived from a kidney was cultivated in a serum free medium for 24 hours. Then, PMA (12-O-tetradecanoylphorbol-13-acetate) (1×10^{-6} M) was added to the human mesangial cell culture and the cells were stimulated. Then, GBP2101 was added and cultivation was carried out in serum free medium for 24 hours. After cultivation, messenger ribonucleic acid was isolated by guanidium thiocyanate method, from the cell, subjected to reverse transcription by avian myeloblastoma virus reverse transcriptase, and then amplified by PCR. The PCR product was assayed using primers specific for CTGF gene. The increase in CTGF gene expression amount by PMA stimulation, was found to be suppressed by the addition of GBP2101. The IC50 value of GBP2101 was found to be 1×10^{-6} M.

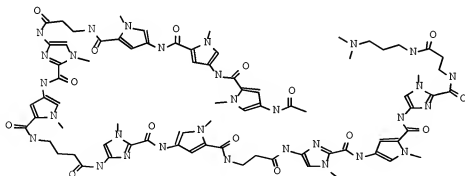
USE - The CTGF gene expression inhibitor is useful for inhibiting expression of CTGF gene (claimed), and for treating CTGF associated disease such as fibrous proliferative disease, blood vessel proliferative disease, arteriosclerosis proliferative disease, pulmonary fibrosis, skin fibrosis and diabetic retinopathy.

ADVANTAGE - The CTGF gene expression inhibitor has a structure having high specificity with respect to CTGF gene, as the inhibitor couples to the specific region of the promoter of human CTGF and inhibits expression of the CTGF gene. The inhibitor does not exhibit side effects like chemotherapeutic drug since the CTGF gene expression is specifically suppressed. The inhibitor is highly stable as it is not degraded by RNase.

DESCRIPTION OF DRAWINGS - The figure shows a graph representing the expression inhibitory effect of connective tissue growth factor messenger ribonucleic acid, by GBP2101. (Drawing includes non-English language text)

AN.S DCR-1471302

SDCN RAQ8N7



L26 ANSWER 3 OF 3 WPIX COPYRIGHT 2009 THOMSON REUTERS on STN

ACCESSION NUMBER: 2003-767409 [72] WPIX

DOC. NO. CPI: C2003-210899 [72]

TITLE: New hairpin type polyamide used for treating cancer contains pyrrole and imidazole units and alkylation site B03; B04

DERWENT CLASS:

INVENTOR: BANDO T; SAITO I; SAITO R; SUGIYAMA H

Serial No.:10/570,159

PATENT ASSIGNEE: (BAND-I) BANDO T; (NISC-N) JAPAN SCI & TECHNOLOGY AGENCY;
(NISC-N) JAPAN SCI & TECHNOLOGY CORP; (KAGA-N) KAGAKU
GIJUTSU SHINKO JIGYODAN; (SAIT-I) SAITO I; (SUGI-I)
SUGIYAMA H
COUNTRY COUNT: 29

PATENT INFO ABBR.:

PATENT NO	KIND	DATE	WEEK	LA	PG	MAIN IPC
WO 2003076412	A1	20030918	(200372)*	JA	46[9]	
JP 2003261541	A	20030919	(200372)	JA	21	
EP 1491534	A1	20041229	(200502)	EN		
US 20050176647	A1	20050811	(200554)	EN		
JP 3898532	B2	20070328	(200725)	JA	24	
US 7456294	B2	20081125	(200880)	EN		

APPLICATION DETAILS:

PATENT NO	KIND	APPLICATION	DATE
WO 2003076412	A1	WO 2003-JP2423	20030303
JP 2003261541	A	JP 2002-63608	20020308
JP 3898532	B2	JP 2002-63608	20020308
EP 1491534	A1	EP 2003-707192	20030303
EP 1491534	A1 PCT Application	WO 2003-JP2423	20030303
US 20050176647	A1 PCT Application	WO 2003-JP2423	20030303
US 20050176647	A1	US 2004-507004	20040908
US 7456294	B2 PCT Application	WO 2003-JP2423	20030303
US 7456294	B2	US 2004-507004	20040908

FILING DETAILS:

PATENT NO	KIND	PATENT NO
JP 3898532	B2 Previous Publ	JP 2003261541 A
EP 1491534	A1 Based on	WO 2003076412 A
US 7456294	B2 Based on	WO 2003076412 A

PRIORITY APPLN. INFO: JP 2002-63608 20020308

AB WO 2003076412 A1 UPAB: 20060120

NOVELTY - New hairpin type polyamide (I) contains N-methyl-pyrrole and N-methyl imidazole polyamide terminals and an alkylation site linked through a vinyl linker.

ACTIVITY - Cytostatic.

No biological data is given.

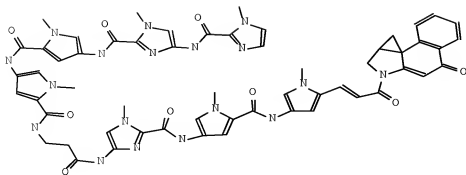
MECHANISM OF ACTION - None given.

USE - Used for suppressing gene expression and treating cancer.

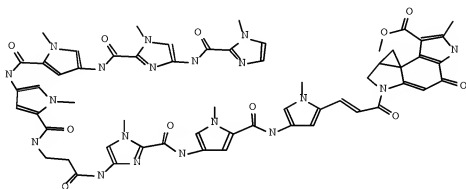
ADVANTAGE - (I) Provides both sequence recognition and DNA alkylation of specific sequences higher than known functional molecules. The imidazole and pyrrole units bind to specific bases so that the hairpin can be designed to bond to specific sequences.

AN.S DCR-792143

SDCN RABZQW



AN.S DCR-792145
SDCN RABZQY



Structure Search

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FILE COVERS 1907 - 6 Jul 2009 VOL 151 ISS 2

FILE LAST UPDATED: 5 Jul 2009 (20090705/ED)

REVISED CLASS FIELDS (/NCL) LAST RELOADED: Apr 2009

USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Apr 2009

HCAplus now includes complete International Patent Classification (IPC) reclassification data for the second quarter of 2009.

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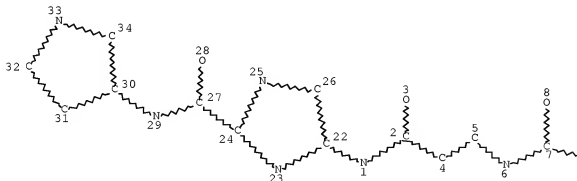
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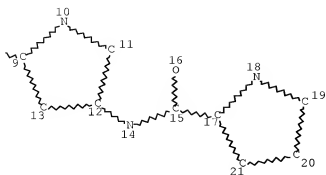
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L7 STR





Page 1-B

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MLEVEL IS CLASS AT 1 2 3 4 5 6 7 8 14 15 16 27 28 29

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 34

STEREO ATTRIBUTES: NONE

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 L12 22 SEA FILE=HCAPLUS SPE=ON ABB=ON PLU=ON L10
 L13 13 SEA FILE=HCAPLUS SPE=ON ABB=ON PLU=ON L12 AND (PRY<=2004 OR
 AY<=2004 OR PD<=2004 OR PY<=2004)

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 L27 12 L13 NOT L17

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FILE LAST UPDATED: 2 JUL 2009 <20090702/UP>
 MOST RECENT UPDATE: 200941 <200941/DW>
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 >>> Now containing more than 1.4 million chemical structures in DCR <<<

>>> IPC, ECLA and US National Classifications have been updated
 with reclassifications to March 15th, 2009.
 F-Term and FI-Term original classifications are current and
 reclassification will commence in June.
 No update date (UP) has been created for the reclassified
 documents, but they can be identified by
 specific update codes (see HELP CLA for details)<<<

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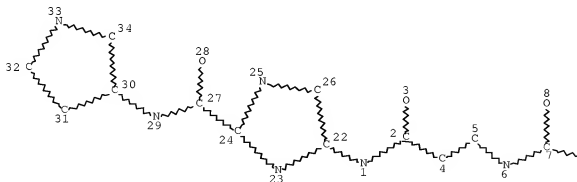
FOR DETAILS OF THE PATENTS COVERED IN CURRENT UPDATES, SEE
<http://scientific.thomsonreuters.com/support/patents/coverage/latestupdates/>

EXPLORE DERWENT WORLD PATENTS INDEX IN STN ANAVIST, VERSION 2.0:
http://www.stn-international.com/DWPIAnaVist2_0608.html

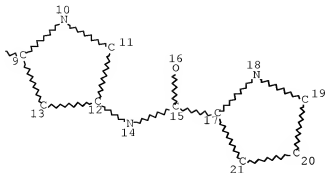
>>> HELP for European Patent Classifications see HELP ECLA, HELP ICO <<<

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Page 1-B

NODE ATTRIBUTES:

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 DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 34

STEREO ATTRIBUTES: NONE

L19 6 SEA FILE=WPIX SSS FUL L7

L20 4 SEA FILE=WPIX SPE=ON ABB=ON PLU=ON L19/DCR

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L28 1 L20 NOT L21

=> DUP REM L27 L28 L25

FILE 'HCAPLUS' ENTERED AT 14:55:43 ON 06 JUL 2009

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PROCESSING COMPLETED FOR L27

PROCESSING COMPLETED FOR L28

PROCESSING COMPLETED FOR L25

L29 16 DUP REM L27 L28 L25 (1 DUPLICATE REMOVED)

ANSWERS '1-12' FROM FILE HCAPLUS

ANSWER '13' FROM FILE WPIX

ANSWERS '14-16' FROM FILE MARPAT

=> D IBIB ED ABS HITSTR 1-12; D IBIB AB HITSTR 13; D IBIB AB HITSTR 14-16

L29 ANSWER 1 OF 16 HCAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2005:1262611 HCAPLUS Full-text

DOCUMENT NUMBER: 144:17149

TITLE: Methods of treating cancer by inhibiting histone gene expression

INVENTOR(S): Dervan, Peter B.; Dickinson, Liliane A.; Arora, Paramjit; Gottesfeld, Joel M.; Burnett, Ryan

PATENT ASSIGNEE(S): California Institute of Technology, USA

SOURCE: PCT Int. Appl., 66 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005112924	A2	20051201	WO 2005-US14631	20050427 <--
WO 2005112924	A3	20060817		

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RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK,

Serial No.:10/570,159

EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT,
RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML,
MR, NE, SN, TD, TG

US 20060019972 A1 20060126 US 2005-116959 20050427 <--
PRIORITY APPLN. INFO.: US 2004-566017P P 20040427 <--
US 2004-611687P P 20040921 <--

ED Entered STN: 02 Dec 2005

AB Methods are provided for decreasing the rate or inhibiting neoplastic cell proliferation by reducing or inhibiting histone H4 gene expression or histone H4 activity. Also provided are methods of treating a patient with a neoplastic disease, and compns. useful for treating a cancer patient, including, for example, a composition containing small interfering RNA mols. that reduce or inhibit histone H4 expression in a cell or a composition containing a pyrrole-imidazole polyamide operatively linked to a chemotherapeutic mol.

IT 844864-17-1

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

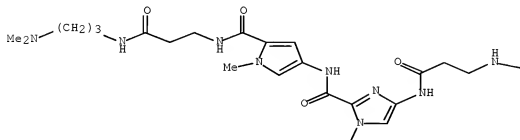
(treating cancer by inhibiting histone gene expression)

RN 844864-17-1 HCAPLUS

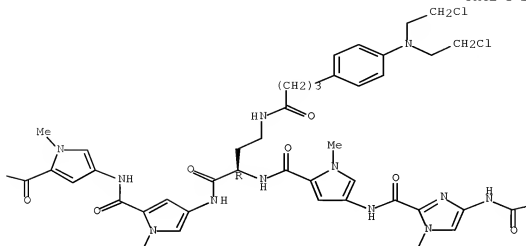
CN 1H-Imidazole-2-carboxamide, N-[5-[[[(1R)-3-[[4-[4-[bis(2-chloroethyl)amino]phenyl]-1-oxobutyl]amino]-1-[[[5-[[[5-[[[3-[[2-[[[5-[[[3-[[3-(dimethylamino)propyl]amino]-3-oxopropyl]amino]carbonyl]-1-methyl-1H-pyrrol-3-yl]amino]carbonyl]-1-methyl-1H-imidazol-4-yl]amino]-3-oxopropyl]amino]carbonyl]-1-methyl-1H-pyrrol-3-yl]amino]carbonyl]-1-methyl-1H-pyrrol-3-yl]amino]carbonyl]propyl]amino]carbonyl]-1-methyl-1H-pyrrol-3-yl]-1-methyl-4-[[[3-[[[1-methyl-4-[[[1-methyl-1H-imidazol-2-yl]carbonyl]amino]-1H-pyrrol-2-yl]carbonyl]amino]-1-oxopropyl]amino]- (CA INDEX NAME)

Absolute stereochemistry.

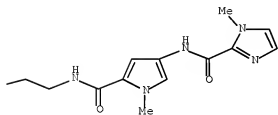
PAGE 1-A



PAGE 1-B



PAGE 1-C



PAGE 2-A



PAGE 2-B



REFERENCE COUNT: 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L29 ANSWER 2 OF 16 HCAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2004:1010384 HCAPLUS Full-text

DOCUMENT NUMBER: 142:232325

TITLE: Arresting cancer proliferation by small-molecule gene regulation

AUTHOR(S): Dickinson, Liliane A.; Burnett, Ryan; Melander, Christian; Edelson, Benjamin S.; Arora, Paramjit S.; Dervan, Peter B.; Gottesfeld, Joel M.

CORPORATE SOURCE: Department of Molecular Biology, The Scripps Research Institute, La Jolla, CA, 92037, USA

SOURCE: Chemistry & Biology (2004), 11(11), 1583-1594

CODEN: CBOLE2; ISSN: 1074-5521

PUBLISHER: Cell Press

DOCUMENT TYPE: Journal

LANGUAGE: English

ED Entered STN: 24 Nov 2004

AB A small library of pyrrole-imidazole polyamide-DNA alkylator (chlorambucil) conjugates was screened for effects on morphol. and growth characteristics of a human colon carcinoma cell line, and a compound was identified that causes cells to arrest in the G2/M stage of the cell cycle. Microarray anal. indicates that the histone H4c gene is significantly downregulated by this polyamide. RT-PCR and Western blotting expts. confirm this result, and siRNA to H4c mRNA yields the same cellular response. Strikingly, reduction of H4 protein by >50% does not lead to widespread changes in global gene expression. Sequence-specific alkylation within the coding region of the H4c gene in cell culture was confirmed by LM-PCR. The compound is active in a wide range of cancer cell lines, and treated cells do not form tumors in nude mice. The compound is also active in vivo, blocking tumor growth in mice, without obvious animal toxicity.

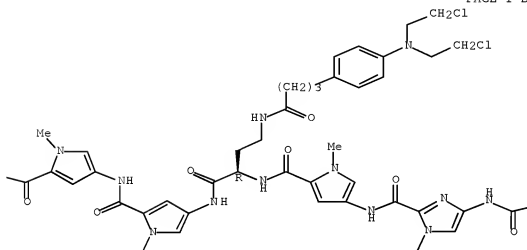
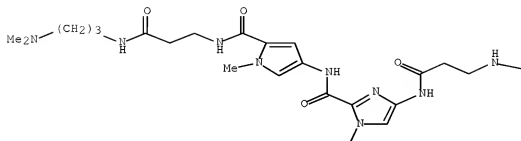
IT 844864-17-1

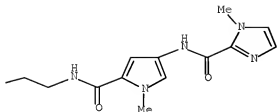
RL: DMA (Drug mechanism of action); PAC (Pharmacological activity); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (arresting cancer proliferation by small-mol. gene regulation)

RN 844864-17-1 HCAPLUS

CN 1H-Imidazole-2-carboxamide, N-[5-[[[(1R)-3-[[4-[4-bis(2-chloroethyl)amino]phenyl]-1-oxobutyl]amino]-1-[[[5-[[[5-[[[3-[[2-[[[5-[[[3-[[3-(dimethylamino)propyl]amino]-3-oxopropyl]amino]carbonyl]-1-methyl-1H-pyrrol-3-yl]amino]carbonyl]-1-methyl-1H-imidazol-4-yl]amino]-3-oxopropyl]amino]carbonyl]-1-methyl-1H-pyrrol-3-yl]amino]carbonyl]-1-methyl-1H-pyrrol-3-yl]amino]carbonyl]propyl]amino]carbonyl]-1-methyl-1H-pyrrol-3-yl]-1-methyl-4-[[3-[[[1-methyl-4-[[[1-methyl-1H-imidazol-2-yl]carbonyl]amino]-1H-pyrrol-2-yl]carbonyl]amino]-1-oxopropyl]amino]- (CA INDEX NAME)

Absolute stereochemistry.





Me

Me

Me

REFERENCE COUNT: 42 THERE ARE 42 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L29 ANSWER 3 OF 16 HCAPLUS COPYRIGHT 2009 ACS on STN
 ACCESSION NUMBER: 2004:120017 HCAPLUS Full-text
 DOCUMENT NUMBER: 141:261037
 TITLE: A Liquid-Phase Synthesis of DNA-Binding Polyamides Using Oligocarboxamide Blocks
 AUTHOR(S): Sinyakov, A. N.; Feshchenko, M. V.; Ryabinin, V. A.
 CORPORATE SOURCE: Vector State Research Center of Virology and Biotechnology, Institute of Molecular Biology, Novosibirsk oblast, 630559, Russia
 SOURCE: Russian Journal of Bioorganic Chemistry (Translation of Bioorganicheskaya Khimiya) (2004), 30(1), 98-99
 CODEN: RJBCET; ISSN: 1068-1620
 PUBLISHER: MAIK Nauka/Interperiodica Publishing
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 141:261037
 ED Entered STN: 13 Feb 2004
 AB A method was developed for the synthesis of sequence-specific polyamides on the basis of 4-amino-1-methylpyrrole-2-carboxylic acid, 4-amino-1-

methylimidazole-2-carboxylic acid, β -alanine, and γ -aminobutyric acid. Dimeric and trimeric oligocarboxamides were used as building blocks. Our synthetic scheme was applied to the synthesis of DNA minor groove binders containing up to twelve carboxamide units.

IT 754226-96-5P 754226-97-6P 754226-98-7P
754227-05-3P

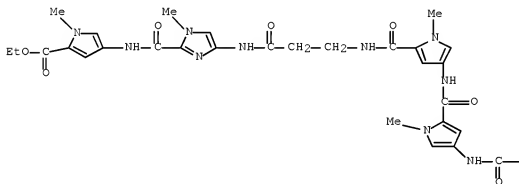
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(liquid-phase synthesis of DNA-binding polyamides using oligocarboxamide blocks)

RN 754226-96-5 HCAPLUS

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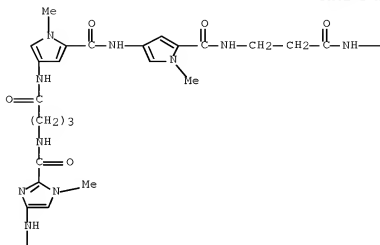
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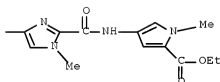
CN 1H-Pyrrole-2-carboxylic acid, 4-[[[4-[[[3-[[[4-[[[4-[[[4-[[[4-[(3-amino-1-oxopropyl)amino]-1-methyl-1H-imidazol-2-yl]carbonyl]amino]-1-methyl-1H-imidazol-2-yl]carbonyl]amino]-1-oxobutyl]amino]-1-methyl-1H-pyrrol-2-yl]carbonyl]amino]-1-methyl-1H-pyrrol-2-yl]carbonyl]amino]-1-methyl-1H-pyrrol-2-yl]carbonyl]amino]-1-

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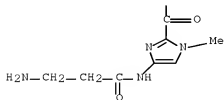
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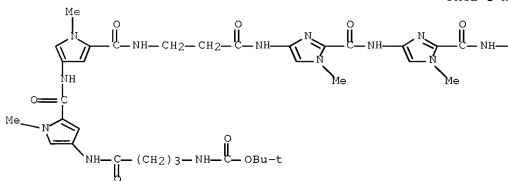


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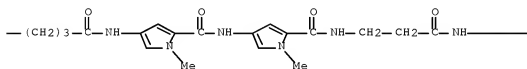
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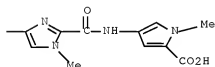
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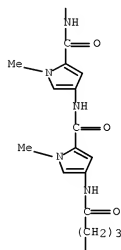
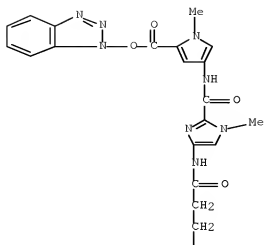
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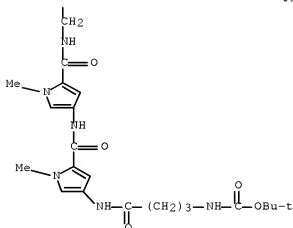
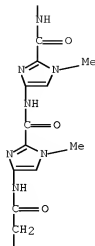


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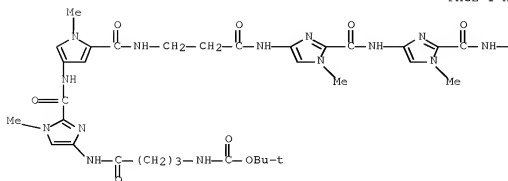
IT 754227-02-6P 754227-06-0P

RL: SPN (Synthetic preparation); PREP (Preparation)
 (liquid-phase synthesis of DNA-binding polyamides using oligocarboxamide blocks)

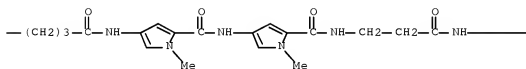
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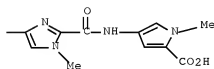
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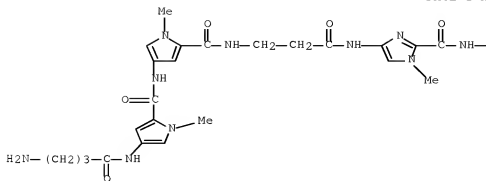
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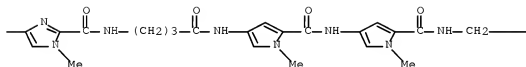
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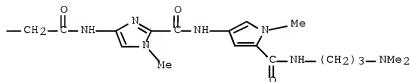
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PAGE 1-C

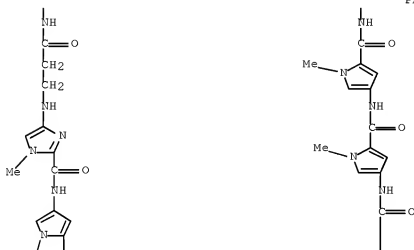
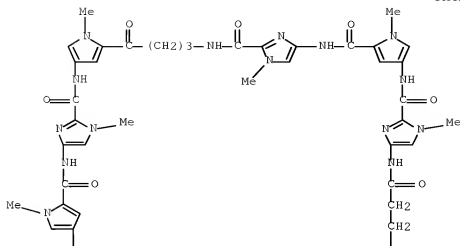


REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L29 ANSWER 4 OF 16 HCAPLUS COPYRIGHT 2009 ACS on STN
 ACCESSION NUMBER: 2003:377027 HCAPLUS [Full-text](#)
 DOCUMENT NUMBER: 138:396243
 TITLE: Polyamide modulators of COX2 transcription
 INVENTOR(S): Phillion, Dennis P.; Crowley, Kathleen S.; Bashkin, James K.; Schweitzer, Barbara A.; Burnett, Barry L.; Woodard, Scott S.
 PATENT ASSIGNEE(S): Pharmacia Corporation, USA
 SOURCE: PCT Int. Appl., 40 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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WO 2003040337	A3	20040311		
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JP 2005508181	T	20050331	JP 2003-542584	20021107 <--
MX 2004004366	A	20040910	MX 2004-4366	20040507 <--
PRIORITY APPLN. INFO.:			US 2001-344859P	P 20011107 <--
			US 2002-419405P	P 20021018 <--
			WO 2002-US35718	W 20021107 <--
ED	Entered STN: 16 May 2003			
AB	Processes and compns. are provided for regulating COX2 gene expression in a cell. The process includes selecting a polyamide composition comprising N-Me pyrrole (Py) and N-Me imidazole (Im) to provide specific binding to DNA at a COX2 gene target site in a cell. The polyamide is then combined with the cell containing the COX2 gene, wherein the polyamide binds to the COX2 gene promoter target site and regulates transcription of the COX2 gene.			
IT	524713-26-6 RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (polyamide modulators of COX2 transcription)			
RN	524713-26-6 HCAPLUS			
CN	1H-imidazole-2-carboxamide, N-[4-[4-[[[4-[[[4-{[2-[[5-[[[3-[[3-(dimethylamino)propyl]amino]-3-oxopropyl]amino]carbonyl]-1-methyl-1H-pyrrol-3-yl]amino]carbonyl]-1-methyl-1H-pyrrol-3-yl]amino]carbonyl]-1-methyl-1H-imidazol-4-yl]amino]-1-oxopropyl]amino]-1-methyl-1H-pyrrol-2-yl]carbonyl]amino]-1-methyl-1H-imidazol-2-yl]carbonyl]amino]-1-methyl-1H-pyrrol-2-yl]-4-oxobutyl]-1-methyl-4-[[[1-methyl-4-[[[1-methyl-4-[[[3-[[[1-methyl-4-[[[1-methyl-4-[[[1-methyl-1H-imidazol-2-yl]carbonyl]amino]-1H-pyrrol-2-yl]carbonyl]amino]-1H-pyrrol-2-yl]carbonyl]amino]-1-oxopropyl]amino]-1H-imidazol-2-yl]carbonyl]amino]-1H-pyrrol-2-yl]carbonyl]amino]- (CA INDEX NAME)			



US 2001-342309P	P 20011221 <--
US 2002-165764	B1 20020606 <--
US 2002-165856	A1 20020606 <--
WO 2002-US17952	W 20020606 <--
US 2004-4615	A1 20041202 <--

OTHER SOURCE(S): MARPAT 138:39181
 ED Entered STN: 20 Dec 2002
 GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB Title compds. I [R5 = H, F, Cl, Br, I, CN, OH, NH₂, etc.; n = 1-25; Y = alkylene, (hetero)aromatic; Z = O, N; m = 1 if Z = O, m = 2 if Z = N; R₂ = H, alkyl, heteroalkyl] are prepared For instance, II (prior art) was coupled to 3-chlorobenzothiophene-2-carboxylic acid (DMF, HBTU, i-Pr₂NEt, 30 min, 37°) to give III. I are DNA binding compds. exhibiting antibacterial activity. III has MIC ≤ 4 µg/mL against *B. cereus*, *S. aureus*, *S. epidermidis*, *E. faecium*, and *S. pneumoniae*.

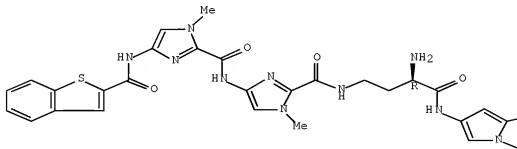
IT 478399-86-9P
 RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (preparation of poly-pyrrole substituted benzothiophene compds. having antiinfective and DNA binding activity)

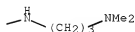
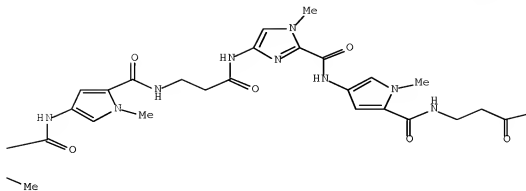
RN 478399-86-9 HCAPLUS

CN 1H-Imidazole-2-carboxamide, N-[(3R)-3-amino-4-[[5-[[[3-[[2-[[[5-[[[3-[[3-(dimethylamino)propyl]amino]-3-oxopropyl]amino]carbonyl]-1-methyl-1H-pyrrol-3-yl]amino]carbonyl]-1-methyl-1H-imidazol-4-yl]amino]-3-oxopropyl]amino]carbonyl]-1-methyl-1H-pyrrol-3-yl]amino]carbonyl]-1-methyl-1H-pyrrol-3-yl]amino]-4-oxobutyl]-4-[[4-(benzo[b]thien-2-ylcarbonyl)amino]-1-methyl-1H-imidazol-2-yl]carbonyl]amino]-1-methyl- (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A





REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L29 ANSWER 6 OF 16 HCAPLUS COPYRIGHT 2009 ACS on STN
 ACCESSION NUMBER: 2000:191196 HCAPLUS [Full-text](#)
 DOCUMENT NUMBER: 132:232754
 TITLE: Inhibition of oncogene transcription by synthetic polyamides
 Dervan, Peter B.
 PATENT ASSIGNEE(S): California Institute of Technology, USA
 SOURCE: PCT Int. Appl., 63 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000015773	A2	20000323	WO 1999-US20489	19990910 <--
WO 2000015773	A3	20000817		

W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK,

Serial No.:10/570,159

SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW
 RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK,
 ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG,
 CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
 CA 2342278 A1 20000323 CA 1999-2342278 19990910 <--
 AU 9959108 A 20000403 AU 1999-59108 19990910 <--
 EP 1112267 A2 20010704 EP 1999-946779 19990910 <--
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
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 JP 2003505521 T 20030212 JP 2000-570300 19990910 <--
 PRIORITY APPLN. INFO.: US 1998-99854P P 19980911 <--
 WO 1999-US20489 W 19990910 <--

ED Entered STN: 24 Mar 2000

AB Polyamides capable of inhibiting the transcription of oncogenes are provided. Preferred polyamides comprising at least 3 complementary pairs of aromatic carboxamide residues bind in the minor groove of double-stranded DNA. More specifically, derivs. of N-methylpyrrole, N-methylimidazole, and/or 3-hydroxy-N-methylpyrrole, and strategically positioned aliphatic amino acid residues (glycine, β -alanine, γ -aminobutyric acid, R-2,4-diaminobutyric acid, 5-aminovaleric acid) form structures with N,N-dimethylaminopropyl termini. With regard to each polyamide, the complementary pairing of some or all of the polyamide's aromatic carboxamide residues detcs. the target nucleotide sequence of an identified dsDNA target in the promoter region of an oncogene. Specific polyamides are designed to inhibit the ESX and AP-2 sites in the promoter of the HER-2/neu gene.

IT 261363-95-5 261364-10-7 261364-12-9

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

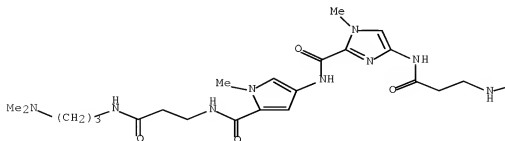
(inhibition of oncogene transcription by synthetic polyamides)

RN 261363-95-5 HCAPLUS

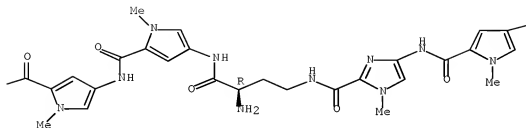
CN 1H-imidazole-2-carboxamide, N-[(3R)-3-amino-4-[[5-[[[3-[[2-[[[5-[[[3-[[[3-(dimethylamino)propyl]amino]-3-oxopropyl]amino]carbonyl]-1-methyl-1H-pyrrol-3-yl]amino]carbonyl]-1-methyl-1H-imidazol-4-yl]amino]-3-oxopropyl]amino]carbonyl]-1-methyl-1H-pyrrol-3-yl]amino]carbonyl]-1-methyl-1H-pyrrol-4-oxobutyl]-1-methyl-4-[[[1-methyl-4-[[[3-[[[1-methyl-4-[[[1-methyl-1H-imidazol-2-yl]carbonyl]amino]-1H-pyrrol-2-yl]carbonyl]amino]-1-oxopropyl]amino]-1H-pyrrol-2-yl]carbonyl]amino]- (CA INDEX NAME)

Absolute stereochemistry.

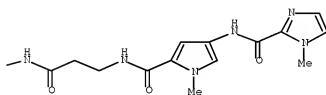
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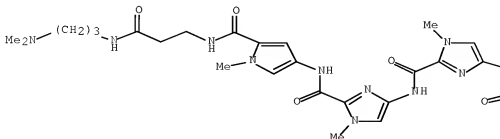


RN 261364-10-7 HCAPLUS

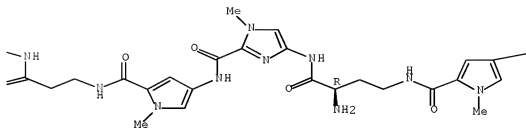
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Absolute stereochemistry.

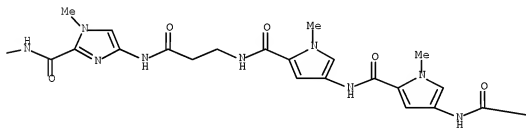
PAGE 1-A



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PAGE 1-D



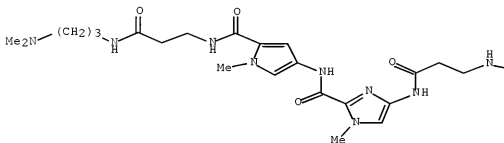
RN 261364-12-9 HCAPLUS
 CN 1H-Imidazole-2-carboxamide, N-[5-[[[(3R)-3-amino-4-[[2-[[[5-[[[5-[[[3-[[2-[[5-[[3-(dimethylamino)propyl]amino]-3-oxopropyl]amino]carbonyl]-1-methyl-1H-pyrrol-3-yl]amino]carbonyl]-1-methyl-1H-imidazol-4-yl]amino]-3-

oxopropyl]amino]carbonyl]-1-methyl-1H-pyrrol-3-yl]amino]carbonyl]-1-methyl-1H-pyrrol-3-yl]amino]carbonyl]-1-methyl-1H-imidazol-4-yl]amino]-4-oxobutyl]amino]carbonyl]-1-methyl-1H-pyrrol-3-yl]-1-methyl-4-[[[1-methyl-4-[[[3-[[[1-methyl-4-[[[1-methyl-1H-imidazol-2-yl]carbonyl]amino]-1H-pyrrol-2-yl]carbonyl]amino]-1-oxopropyl]amino]-1H-imidazol-2-yl]carbonyl]amino]-

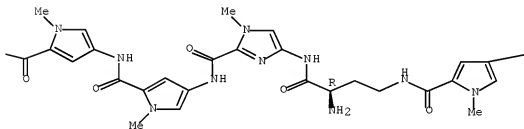
(CA INDEX NAME)

Absolute stereochemistry.

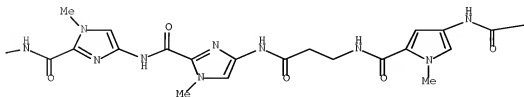
PAGE 1-A



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REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L29 ANSWER 7 OF 16 HCAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2000:578977 HCAPLUS [Full-text](#)

DOCUMENT NUMBER: 134:52156

TITLE: Targeting the Ets binding site of the HER2/neu promoter with pyrrole-imidazole polyamides
 AUTHOR(S): Chiang, Shu-Yuan; Burli, Roland W.; Benz, Chris C.; Gawron, Loretta; Scott, Gary K.; Dervan, Peter B.; Beerman, Terry A.

CORPORATE SOURCE: Department of Pharmacology and Therapeutics, Roswell Park Cancer Institute, Buffalo, NY, 14263, USA

SOURCE: Journal of Biological Chemistry (2000), 275(32), 24246-24254

PUBLISHER: CODEN: JBCHA3; ISSN: 0021-9258
 American Society for Biochemistry and Molecular Biology

DOCUMENT TYPE: Journal

LANGUAGE: English

ED Entered STN: 23 Aug 2000

AB Three DNA binding polyamides (1-3) were synthesized that bind with high affinity ($K_a = 8.7 \cdot 10^9$ M⁻¹ to $1.4 \cdot 10^{10}$ M⁻¹) to two 7-base pair sequences overlapping the Ets DNA binding site (EBS; GAGGAA) within the regulatory region of the HER2/neu proximal promoter. As measured by electrophoretic mobility shift assay, polyamides binding to flanking elements upstream (1) or downstream (2 and 3) of the EBS were one to two orders of magnitude more effective than the natural product distamycin at inhibiting formation of complexes between the purified EBS protein, epithelial restricted with serine box (ESX), and the HER2/neu promoter probe. One polyamide, 2, completely blocked Ets-DNA complex formation at 10 nM ligand concentration, whereas formation of activator protein-2-DNA complexes was unaffected at the activator protein-2 binding site immediately upstream of the HER2/neu EBS, even at 100 nM ligand concentration. At equilibrium, polyamide 1 was equally effective at inhibiting Ets/DNA binding when added before or after in vitro formation of protein-promoter complexes, demonstrating its utility to disrupt endogenous Ets-mediated HER2/neu preinitiation complexes. Polyamide 2, the most potent inhibitor of Ets-DNA complex formation by electrophoretic mobility shift assay, was also the most effective inhibitor of HER2/neu promoter-driven transcription measured in a cell-free system using nuclear extract from an ESX- and HER2/neu-overexpressing human breast cancer cell line, SKBR-3.

IT 313945-83-4P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (targeting Ets binding site of HER2/neu promoter with pyrrole-imidazole polyamides)

RN 313945-83-4 HCAPLUS

CN 1H-Imidazole-2-carboxamide, N-[3-amino-4-[[5-[[[5-[[[3-[[2-[[[5-[[[3-[[3-

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REFERENCE COUNT: 31 THERE ARE 31 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L29 ANSWER 8 OF 16 HCAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2000:417743 HCAPLUS [Full-text](#)

DOCUMENT NUMBER: 133:248492

TITLE: Recognition of the Minor Groove of DNA by Hairpin Polyamides Containing α -Substituted- β -Amino Acids

AUTHOR(S): Floreancig, Paul E.; Swalley, Susanne E.; Trauger, John W.; Dervan, Peter B.

CORPORATE SOURCE: Division of Chemistry and Chemical Engineering, California Institute of Technology, Pasadena, CA, 91125, USA

SOURCE: Journal of the American Chemical Society (2000), 122(27), 6342-6350

CODEN: JACSAT; ISSN: 0002-7863

PUBLISHER: American Chemical Society

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 133:248492

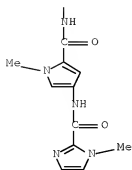
ED Entered STN: 23 Jun 2000

AB Incorporation of the flexible amino acid β -alanine (β) into hairpin polyamides composed of N-methylpyrrole (Py) and N-methylimidazole (Im) amino acids is required for binding to DNA sequences longer than seven base pairs with high affinity and sequence selectivity. Pairing the α -substituted- β -amino acids (S)-isoserine (SIs), (R)-isoserine (RIs), β -aminoalanine (Aa), and α -fluoro- β -alanine (Fb) side-by-side with β in hairpin polyamides alters DNA binding affinity and selectivity relative to the parent polyamide containing a β/β pairing. Quant. DNase I footprinting titration studies on a restriction fragment containing the sequences 5'-TGCNGTA-3' (N = A, T, G, and C) show that the polyamide ImPySIsImPy- γ -PyPy β ImPy- β -Dp (SIs/ β pairing) binds to N = T (K_a = 4.5×10^9 M $^{-1}$) in preference to N = A (K_a = 6.2×10^8 M $^{-1}$). This result stands in contrast to the essentially degenerate binding of the parent ImPy β ImPy- γ -PyPy β ImPy- β -Dp (β/β pairing) to N = T and N = A, and to the slight preference of ImPy β ImPy- γ -PyPySIsImPy- β -Dp (β /SIs pairing) to N = A over N = T. Addnl., this study reveals that incorporation of RIs, Aa, and Fb into polyamides significantly reduces binding affinity. Therefore, DNA binding in the minor groove is sensitive to the stereochem., steric bulk, and electronics of the substituent at the α -position of β -amino acids in hairpin polyamides containing β/β pairs.

IT 294858-26-7P 294858-28-9P 294858-30-3P
294858-32-5P 294858-33-6P 294858-34-7P
294858-62-1P

RL: BPR (Biological process); BSU (Biological study, unclassified); PRP (Properties); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); PROC (Process)

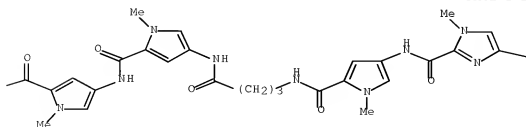
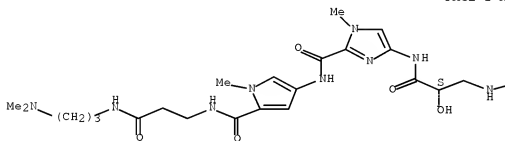
(recognition of the minor groove of DNA by hairpin polyamides containing



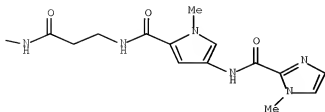
RN 294858-28-9 HCAPLUS

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Absolute stereochemistry.



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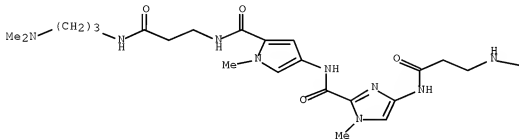


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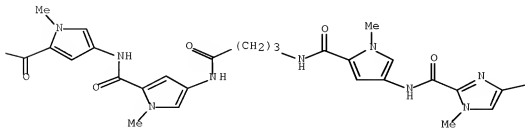
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Absolute stereochemistry.

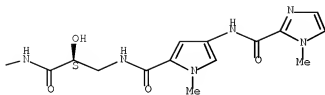
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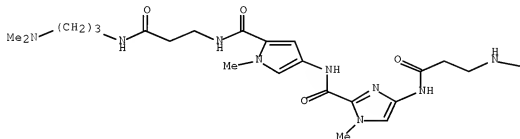


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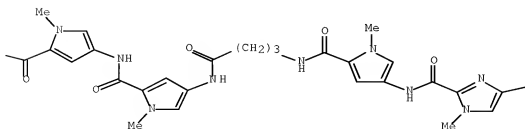
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Absolute stereochemistry.

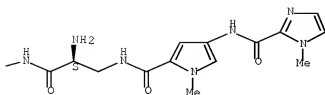
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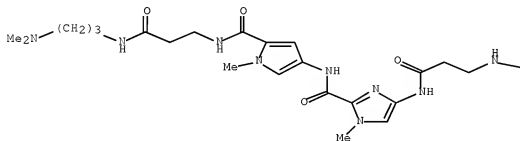


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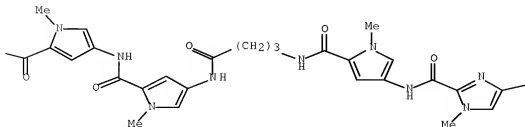
CN 1H-Imidazole-2-carboxamide, N-[5-[[[4-[[5-[[[3-[[2-[[[5-[[[3-[[3-(dimethylamino)propyl]amino]-3-oxopropyl]amino]carbonyl]-1-methyl-1H-pyrrol-3-yl]amino]carbonyl]-1-methyl-1H-imidazol-4-yl]amino]-3-oxopropyl]amino]carbonyl]-1-methyl-1H-pyrrol-3-yl]amino]carbonyl]-1-methyl-1H-pyrrol-3-yl]amino]-4-oxobutyl]amino]carbonyl]-1-methyl-1H-pyrrol-3-yl]-4-[[[(2R)-2-hydroxy-3-[[[1-methyl-4-[[[1-methyl-1H-imidazol-2-yl]carbonyl]amino]-1H-pyrrol-2-yl]carbonyl]amino]-1-oxopropyl]amino]-1-methyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

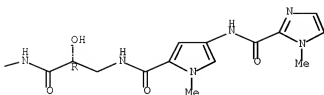
PAGE 1-A



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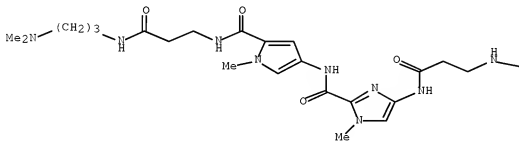


RN 294858-34-7 HCAPLUS

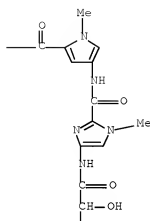
CN 1H-Imidazole-2-carboxamide, N-[5-[[[4-[[5-[[[3-[[2-[[[5-[[[3-[[3-(dimethylamino)propyl]amino]-3-oxopropyl]amino]carbonyl]-1-methyl-1H-pyrrol-3-yl]amino]carbonyl]-1-methyl-1H-imidazol-4-yl]amino]-3-oxopropyl]amino]carbonyl]-1-methyl-1H-pyrrol-3-yl]amino]carbonyl]-1-methyl-1H-pyrrol-3-yl]amino]-4-oxobutyl]amino]carbonyl]-1-methyl-1H-pyrrol-3-yl]-4-[[[(2S)-2-fluoro-3-[[[1-methyl-4-[[[(1-methyl-1H-imidazol-2-yl)carbonyl]amino]-1H-pyrrol-2-yl]carbonyl]amino]-1-oxopropyl]amino]-1-methyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

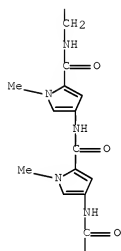
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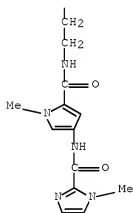
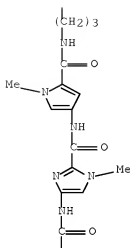


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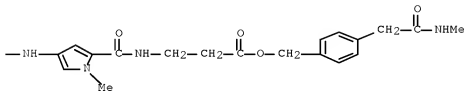
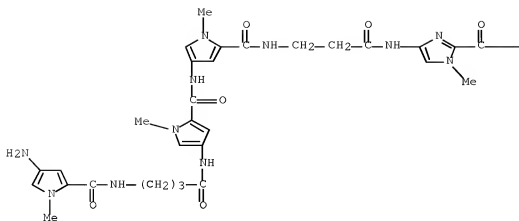
IT 294858-43-8 294858-45-0

RL: RCT (Reactant); RACT (Reactant or reagent)

(recognition of the minor groove of DNA by hairpin polyamides containing
α-substituted-β-amino acids)

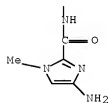
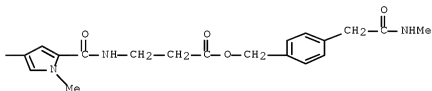
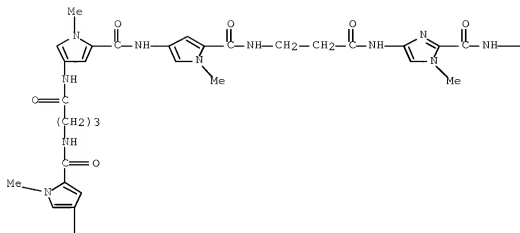
RN 294858-43-8 HCAPLUS

CN β-Alanine, 4-amino-2,3,4,5-tetradehydro-1-methylprolyl-4-aminobutanoyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-β-alanyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-,
[4-[2-(methylamino)-2-oxoethyl]phenyl]methyl ester (9CI) (CA INDEX NAME)



RN 294858-45-0 HCAPLUS

CN β -Alanine, 4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl- β -alanyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-, [4-[2-(methylamino)-2-oxoethyl]phenyl]methyl ester (9CI) (CA INDEX NAME)



REFERENCE COUNT: 57 THERE ARE 57 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L29 ANSWER 9 OF 16 HCAPLUS COPYRIGHT 2009 ACS on STN
 ACCESSION NUMBER: 1998:721676 HCAPLUS [Full-text](#)
 DOCUMENT NUMBER: 129:343723
 ORIGINAL REFERENCE NO.: 129:70017a,70020a
 TITLE: Preparation of DNA-binding pyrrole and imidazole polyamide derivatives
 INVENTOR(S): Dervan, Peter B.

Serial No.:10/570,159

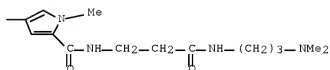
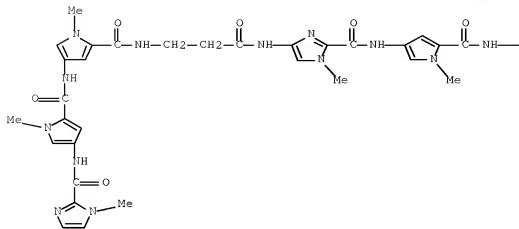
PATENT ASSIGNEE(S): California Institute of Technology, USA
 SOURCE: PCT Int. Appl., 243 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 13
 PATENT INFORMATION:

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WO 9849142	A1	19981105	WO 1998-US6997	19980408 <--
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ED Entered STN: 13 Nov 1998
 GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

- AB Novel small mol. polyamides I [each R1, R5, R7, R8, R10 = independently H, Cl, NO, Ac, PhCH2, Cl-6 alkyl, Cl-6 alkylamine, Cl-6 alkylidiamine, Cl-6 alkylcarboxylate, Cl-6 alkenyl, Cl-6 alkynyl; R2 = H, NH2, SH, Cl, Br, F, Ac, CHO; each R3, R6, R9, R11 = independently H, NH2, OH, SH, Br, Cl, F, OMe, CH2OH, CH2SH, CH2NH2; R4 = NH(CH2)0-6NR12R13, NH(CH2)0-6CONH(CH2)0-6NR12R13, NHR12, NH(CH2)0-6CONHR12; R12, R13 = independently H, Cl, NH, Ac, CH2Ph, Cl-6 alkyl, Cl-6 alkylamine, Cl-6 alkylidiamine, Cl-6 alkylcarboxylate, Cl-6 alkenyl, Cl-6-L; L = biotin, oligodeoxynucleotide, N-ethylnitrosourea, fluorescein, bromoacetamide, iodoacetamide, DL- α -lipoic acid, acridine, Ethyl Red, 4-(psoralen-8-yloxy)butyrate, tartaric acid, (+)- α -tocopheral, Cl-6 alkynyl; each X-X4 = independently N, CH, C(OH), CMe, CNH2, CCl, CF; each a, c, e, h = independently 0-10; each b, d, f, g, i, m, n, p, q = independently 0-5] that specifically bind with subnanomolar affinity to any predetd. sequence in the human genome with potential use in mol. biol. and human medicine are described. Further, the designed compds. which target the minor groove of B-form double helical DNA offer a general approach for the control of gene-expression. Simple rules are disclosed which provide for rational control of the DNA-binding sequence specificity of synthetic polyamides containing N-methylpyrrole and N-methylimidazole amino acids. A series of mol. templates for polyamide design are disclosed which provide for small mols. which recognize predetd. DNA sequences with affinities and specificities comparable to sequence specific DNA-binding proteins such as transcription factors. Thus, designed polyamide II, prepared by solid-phase methods, showed recognition for oligonucleotide 5'-AACCAAGTCTTGTA-3' with $K_a = 4 + 10^8 \text{ M}^{-1}$, and specificities of 11 and 19 for the match site vs. a center mismatch and an edge mismatch, resp.
- IT 215438-30-5P
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); PRP (Properties); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (preparation and sequence specificity of DNA-binding pyrrole and imidazole polyamide derivs.)
- RN 215438-30-5 HCAPLUS
- CN 1H-imidazole-2-carboxamide, N-[5-[[[5-[[[3-[3-(dimethylamino)propyl]amino]-3-oxopropyl]amino]carbonyl]-1-methyl-1H-pyrrol-3-yl]amino]carbonyl]-1-methyl-1H-pyrrol-3-yl]-1-methyl-4-[[3-[[[1-methyl-4-[[[1-methyl-4-[[[1-methyl-1H-imidazol-2-yl]carbonyl]amino]-1H-pyrrol-2-yl]carbonyl]amino]-1H-pyrrol-2-yl]carbonyl]amino]-1H-pyrrol-2-yl]carbonyl]amino]-1-oxopropyl]amino]- (CA INDEX NAME)



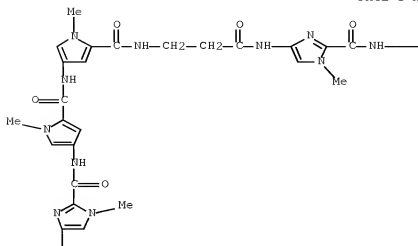
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RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation and sequence specificity of DNA-binding pyrrole and imidazole polyamide derivs.)

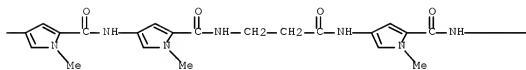
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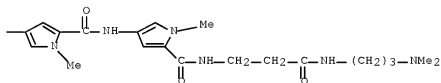
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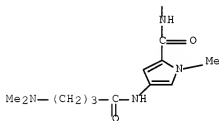
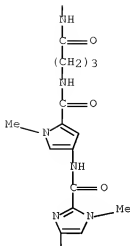


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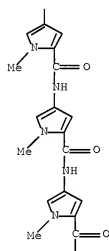
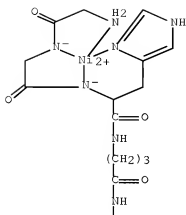
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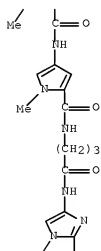
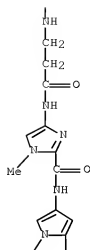




RN 215437-65-3 HCAPLUS

CN Nickel, [glycyl-κN-glycyl-κN-L-histidyl-κN,κN3-β-alanyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-β-alanyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-β-alanyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]-β-alaninamidato(2-)]- (9CI) (CA INDEX NAME)





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ED Entered STN: 24 Sep 1998

AB The invention encompasses improved selective polyamides for binding to specific nucleotide sequences of double stranded DNA as well as methods for designing and synthesizing polyamide DNA binding ligands that are selective for an identified specific nucleotide sequence. The 3-hydroxy-N-methylpyrrole/N-methylpyrrole carboxamide pair specifically recognizes the T.A base pair, while the N-methylpyrrole/3-hydroxy-N-methylpyrrole pair recognizes A.T nucleotide pairs. Similarly, an N-methylimidazole/N-methylpyrrole carboxamide pair specifically recognizes the G.C nucleotide pair, and the N-methylpyrrole/N-methylimidazole carboxamide pair recognizes the C.G nucleotide pair.

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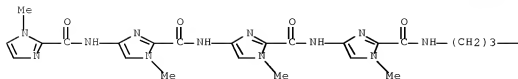
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RL: BAC (Biological activity or effector, except adverse); BPR (Biological process); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)
 (design and use of specific polyamide DNA-binding ligands for modulation of gene expression)

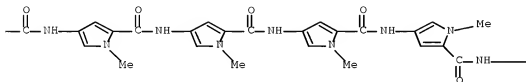
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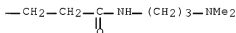
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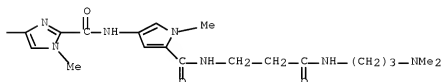
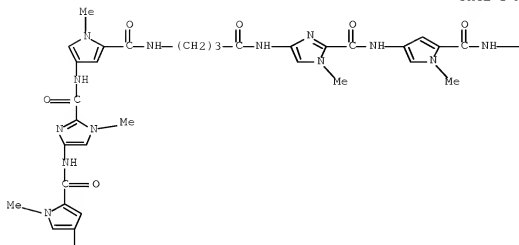


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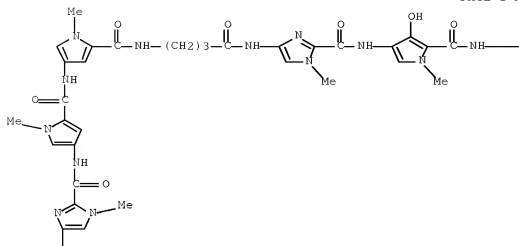
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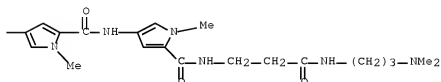


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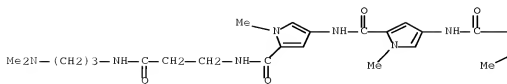


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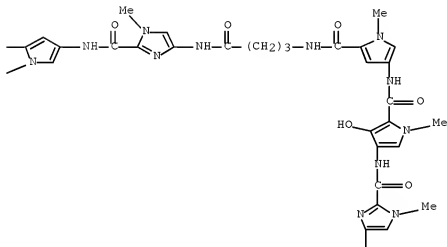


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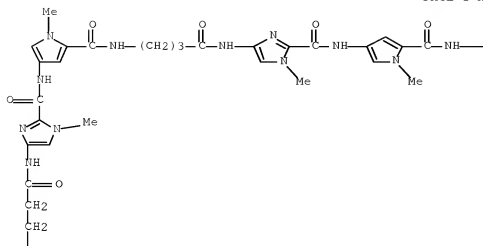
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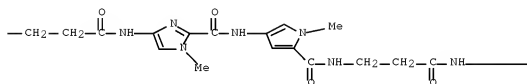
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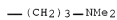
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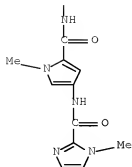


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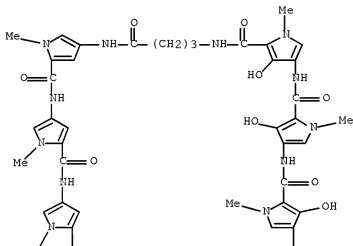
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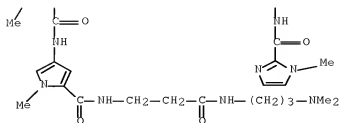




RN 212180-64-8 HCAPLUS

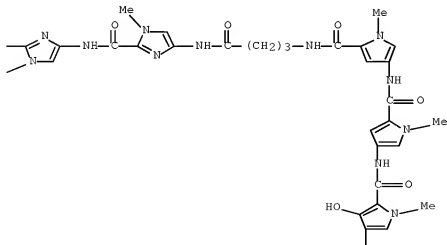
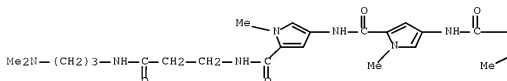
CN 1H-Imidazole-2-carboxamide, N-[5-[[[5-[[[5-[[[4-[[5-[[[5-[[[5-[[[5-[[[3-[[3-(dimethylamino)propyl]amino]-3-oxopropyl]amino]carbonyl]-1-methyl-1H-pyrrol-3-yl]amino]carbonyl]-1-methyl-1H-pyrrol-3-yl]amino]carbonyl]-1-methyl-1H-pyrrol-3-yl]amino]carbonyl]-1-methyl-1H-pyrrol-3-yl]amino]carbonyl]-1-methyl-1H-pyrrol-3-yl]amino]carbonyl]-4-oxobutyl]amino]carbonyl]-4-hydroxy-1-methyl-1H-pyrrol-3-yl]amino]carbonyl]-4-hydroxy-1-methyl-1H-pyrrol-3-yl]-1-methyl- (CA INDEX NAME)

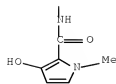




RN 212181-15-2 HCAPLUS

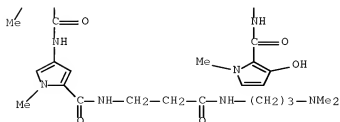
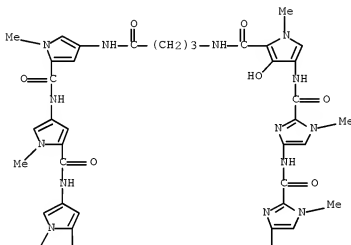
CN 1H-Imidazole-2-carboxamide, N-[2-[[[5-[[[3-[[3-(dimethylamino)propyl]amino]-3-oxopropyl]amino]carbonyl]-1-methyl-1H-pyrrol-3-yl]amino]carbonyl]-1-methyl-1H-pyrrol-3-yl]amino]carbonyl]-1-methyl-1H-imidazol-4-yl]-4-[[4-[[[4-[[[3-hydroxy-1-methyl-4-[[[1-methyl-1H-imidazol-2-yl]carbonyl]amino]-1H-pyrrol-2-yl]carbonyl]amino]-1-methyl-1H-pyrrol-2-yl]carbonyl]amino]-1-oxobutyl]amino]-1-methyl- (CA INDEX NAME)





RN 212182-38-2 HCAPLUS

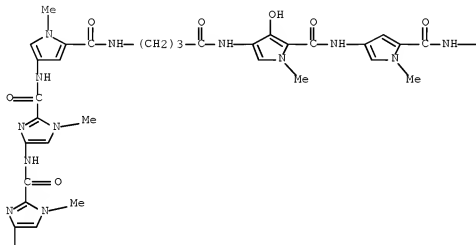
CN 1H-Imidazole-2-carboxamide, N-[2-[[[5-[[[4-[[[5-[[[5-[[[5-[[[3-[[3-(dimethylamino)propyl]amino]-3-oxopropyl]amino]carbonyl]-1-methyl-1H-pyrrol-3-yl]amino]carbonyl]-1-methyl-1H-pyrrol-3-yl]amino]carbonyl]-1-methyl-1H-pyrrol-3-yl]amino]carbonyl]-1-methyl-1H-pyrrol-3-yl]amino]carbonyl]-4-oxobutyl]amino]carbonyl]-4-hydroxy-1-methyl-1H-pyrrol-3-yl]amino]carbonyl]-1-methyl-1H-imidazol-4-yl]-4-[[[3-hydroxy-1-methyl-1H-pyrrol-2-yl]carbonyl]amino]-1-methyl- (CA INDEX NAME)



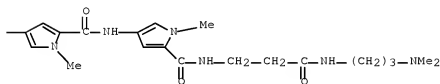
RN 212182-39-3 HCAPLUS

CN 1H-Imidazole-2-carboxamide, N-[2-[[[5-[[[4-[[5-[[[5-[[[5-[[[3-[[3-(dimethylamino)propyl]amino]-3-oxopropyl]amino]carbonyl]-1-methyl-1H-pyrrol-3-yl]amino]carbonyl]-1-methyl-1H-pyrrol-3-yl]amino]carbonyl]-4-hydroxy-1-methyl-1H-pyrrol-3-yl]amino]-4-oxobutyl]amino]carbonyl]-1-methyl-1H-pyrrol-3-yl]amino]carbonyl]-1-methyl-1H-imidazol-4-yl]-4-[[[3-hydroxy-1-methyl-1H-pyrrol-2-yl]carbonyl]amino]-1-methyl- (CA INDEX NAME)

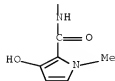
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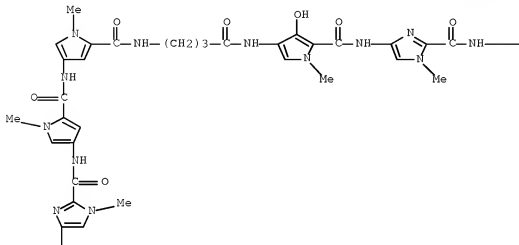


RN 212182-43-9 HCAPLUS

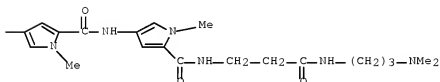
CN β-Alaninamide, 2,3,4,5-tetrahydro-3-hydroxy-1-methylprolyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-

amino-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)

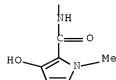
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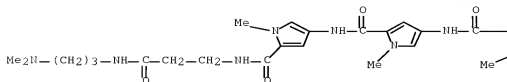
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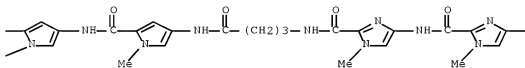
RN 212182-45-1 HCAPLUS
 CN 1H-Imidazole-2-carboxamide, N-[2-[[[4-[15-[[15-[[15-[[15-[[3-[13-(dimethylamino)propyl]amino]-3-oxopropyl]amino]carbonyl]-1-methyl-1H-pyrrol-3-yl]amino]carbonyl]-1-methyl-1H-pyrrol-3-yl]amino]carbonyl]-1-methyl-1H-pyrrol-3-yl]amino]-4-oxobutyl]amino]carbonyl]-1-methyl-1H-imidazol-4-yl]-4-[[[4-[[[3-hydroxy-1-

methyl-1H-pyrrol-2-yl)carbonyl]amino]-1-methyl-1H-imidazol-2-yl]carbonyl]amino]-1-methyl- (CA INDEX NAME)

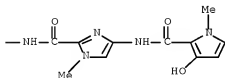
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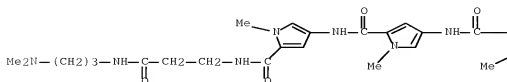
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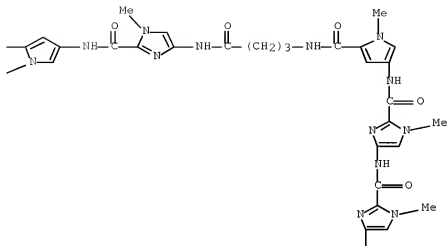
RN 212182-46-2 HCAPLUS

CN 1H-Imidazole-2-carboxamide, N-[5-[[[4-[[2-[[[5-[[[5-[[[3-[[3-(dimethylamino)propyl]amino]-3-oxopropyl]amino]carbonyl]-1-methyl-1H-pyrrol-3-yl]amino]carbonyl]-1-methyl-1H-pyrrol-3-yl]amino]carbonyl]-1-methyl-1H-imidazol-4-yl]amino]-4-oxobutyl]amino]carbonyl]-1-methyl-1H-pyrrol-3-yl]-4-[[[4-[[[3-hydroxy-1-methyl-1H-pyrrol-2-yl]carbonyl]amino]-1-methyl-1H-imidazol-2-yl]carbonyl]amino]-1-methyl- (CA INDEX NAME)

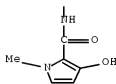
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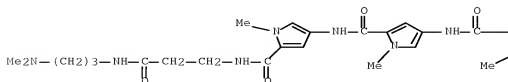
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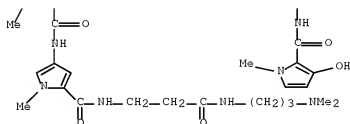
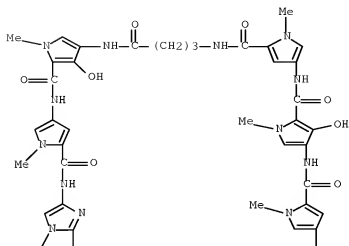


RN 212182-49-5 HCAPLUS

CN 1H-Imidazole-2-carboxamide, N-[2-[[[5-[[[5-[[[3-[[[3-(dimethylamino)propyl]amino]-3-oxopropyl]amino]carbonyl]-1-methyl-1H-pyrrol-3-yl]amino]carbonyl]-1-methyl-1H-pyrrol-3-yl]amino]carbonyl]-1-methyl-1H-imidazol-4-yl]-4-[[[4-[[[4-[[[4-[[[4-[[[3-hydroxy-1-methyl-1H-pyrrol-2-yl]carbonyl]amino]-1-methyl-1H-imidazol-2-yl]carbonyl]amino]-1-methyl-1H-pyrrol-2-yl]carbonyl]amino]-1-methyl-1H-pyrrol-2-yl]carbonyl]amino]-1-methyl-1H-pyrrol-2-yl]carbonyl]amino]-1-oxobutyl]amino]-1-methyl- (CA INDEX NAME)

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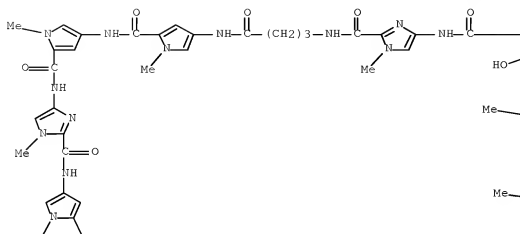




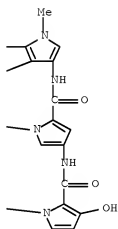
RN 212182-52-0 HCAPLUS

CN β -Alaninamide, 2,3,4,5-tetradehydro-3-hydroxy-1-methylprolyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)

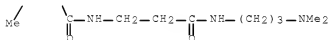
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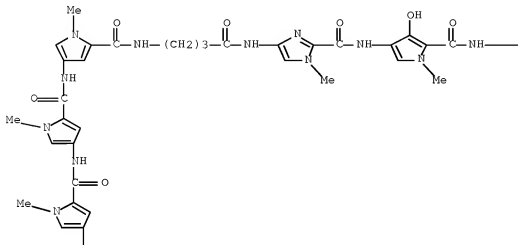


RN 212182-57-5 HCAPLUS

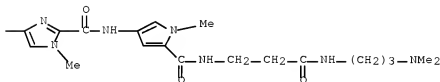
CN β -Alaninamide, 2,3,4,5-tetrahydro-3-hydroxy-1-methylprolyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-

imidazole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)

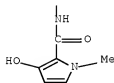
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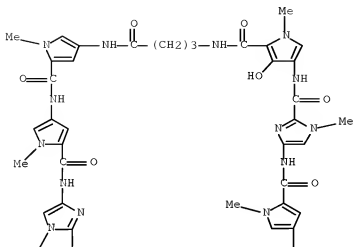
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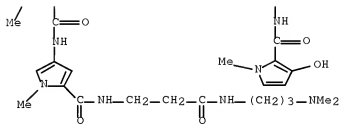
RN 212182-58-6 HCAPLUS

CN β-Alaninamide, 2,3,4,5-tetradehydro-3-hydroxy-1-methylprolyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)

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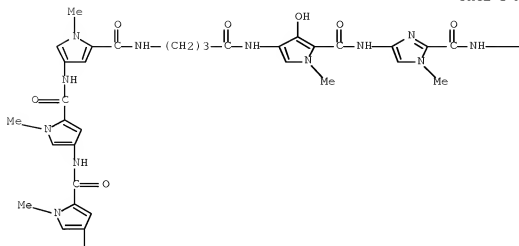
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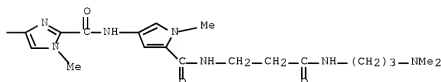
RN 212182-59-7 HCAPLUS

CN β -Alaninamide, 2,3,4,5-tetradehydro-3-hydroxy-1-methylprolyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)

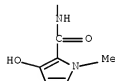
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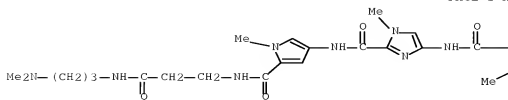


RN 212182-62-2 HCAPLUS

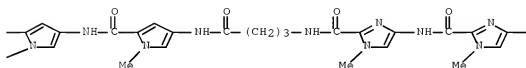
CN 1H-Imidazole-2-carboxamide, N-[4-[[[5-[[[2-[[[5-[[[3-[[3-(dimethylamino)propyl]amino]-3-oxopropyl]amino]carbonyl]-1-methyl-1H-pyrrol-3-yl]amino]carbonyl]-1-methyl-1H-imidazol-4-yl]amino]carbonyl]-1-methyl-1H-pyrrol-3-yl]amino]carbonyl]-1-methyl-1H-pyrrol-3-yl]amino]-4-oxobutyl]-4-[[[4-[[[4-[[[3-hydroxy-1-methyl-1H-pyrrol-2-yl]carbonyl]amino]-1-methyl-1H-pyrrol-2-yl]carbonyl]amino]-1-methyl-1H-imidazol-2-yl]carbonyl]amino]-1-methyl-

(CA INDEX NAME)

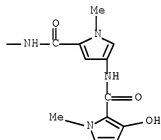
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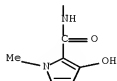
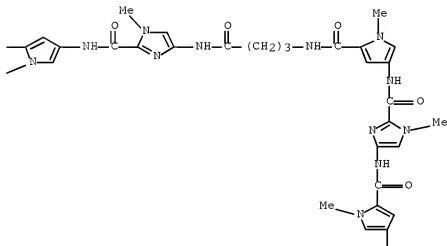
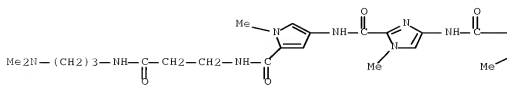
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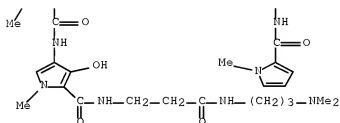
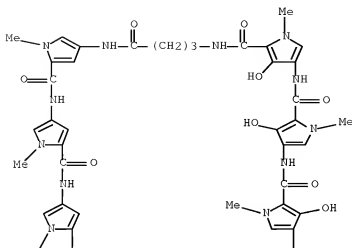
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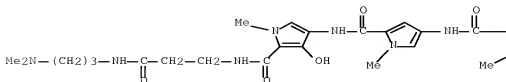
RN 212182-63-3 HCAPLUS
 CN 1H-Imidazole-2-carboxamide, N-[5-[[[2-[[[5-[[[3-[[3-(dimethylamino)propyl]amino]-3-oxopropyl]amino]carbonyl]-1-methyl-1H-pyrrol-3-yl]amino]carbonyl]-1-methyl-1H-imidazol-4-yl]amino]carbonyl]-1-methyl-1H-pyrrol-3-yl]-4-[[[4-[[[4-[[[4-[[[4-[[[3-hydroxy-1-methyl-1H-pyrrol-2-yl]carbonyl]amino]-1-methyl-1H-pyrrol-2-yl]carbonyl]amino]-1-methyl-1H-imidazol-2-yl]carbonyl]amino]-1-methyl-1H-pyrrol-2-yl]carbonyl]amino]-1-oxobutyl]amino]-1-methyl- (CA INDEX NAME)

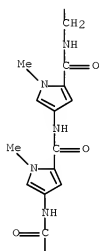
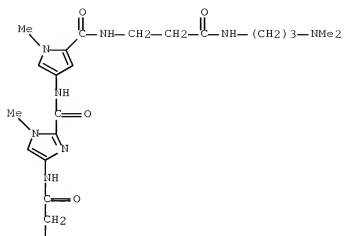


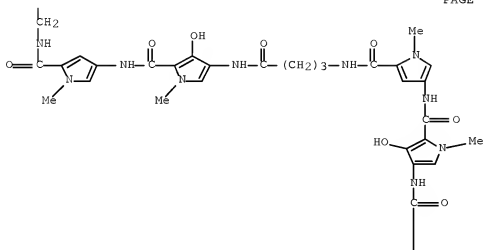
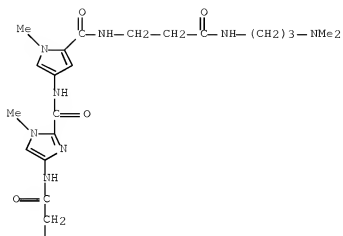
RN 212182-65-5 HCAPLUS
 CN 1H-Imidazole-2-carboxamide, N-[2-[[[5-[[[3-[[3-(dimethylamino)propyl]amino]-3-oxopropyl]amino]carbonyl]-1-methyl-1H-pyrrol-3-yl]amino]carbonyl]-1-methyl-1H-imidazol-4-yl]-4-[[[4-[[[4-[[[4-[[[4-[[[3-hydroxy-1-methyl-1H-pyrrol-2-yl]carbonyl]amino]-1-methyl-1H-pyrrol-2-yl]carbonyl]amino]-1-methyl-1H-pyrrol-2-yl]carbonyl]amino]-1-methyl-1H-pyrrol-2-yl]carbonyl]amino]-1-oxobutyl]amino]-1-methyl-1H-imidazol-2-yl]carbonyl]amino]-1-methyl- (CA INDEX NAME)



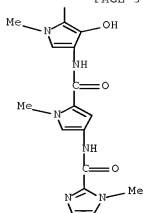
RN 212182-81-5 HCAPLUS
 CN 1H-Imidazole-2-carboxamide, N-[2-[[[5-[[[5-[[[3-[[[3-(dimethylamino)propyl]amino]-3-oxopropyl]amino]carbonyl]-4-hydroxy-1-methyl-1H-pyrrol-3-yl]amino]carbonyl]-1-methyl-1H-pyrrol-3-yl]amino]carbonyl]-1-methyl-1H-imidazol-4-yl]-4-[[[4-[[[4-[[[3-hydroxy-1-methyl-4-[[[1-methyl-1H-pyrrol-2-yl]carbonyl]amino]-1H-pyrrol-2-yl]carbonyl]amino]-1-methyl-1H-pyrrol-2-yl]carbonyl]amino]-1-methyl-1H-pyrrol-2-yl]carbonyl]amino]-1-methyl-1H-pyrrol-2-yl]carbonyl]amino]-1-oxobutyl]amino]-1-methyl- (CA INDEX NAME)







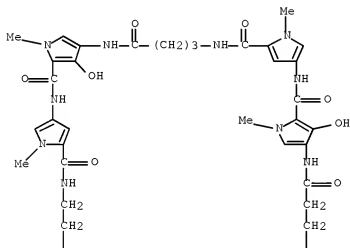
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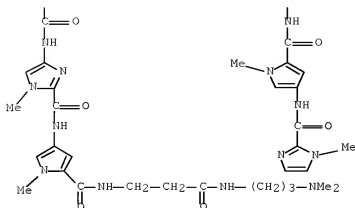


RN 212446-82-7 HCAPLUS

CN 1H-Imidazole-2-carboxamide, N-[5-[[[3-[[3-(dimethylamino)propyl]amino]-3-oxopropyl]amino]carbonyl]-1-methyl-1H-pyrrol-3-yl]-4-[[3-[[[4-[[[3-hydroxy-4-[[4-[[[4-[[[3-hydroxy-1-methyl-4-[[3-[[[1-methyl-4-[[[1-methyl-1H-imidazol-2-yl]carbonyl]amino]-1H-pyrrol-2-yl]carbonyl]amino]-1-oxopropyl]amino]-1H-pyrrol-2-yl]carbonyl]amino]-1-methyl-1H-pyrrol-2-yl]carbonyl]amino]-1-oxobutyl]amino]-1-methyl-1H-pyrrol-2-yl]carbonyl]amino]-1-methyl-1H-pyrrol-2-yl]carbonyl]amino]-1-oxopropyl]amino]-1-methyl- (CA INDEX NAME)

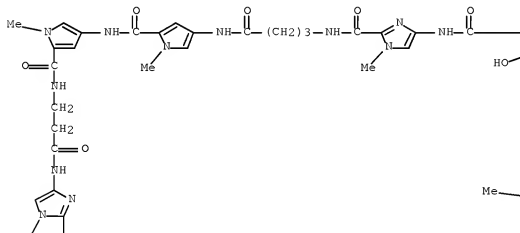
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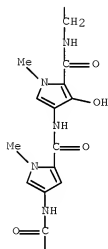
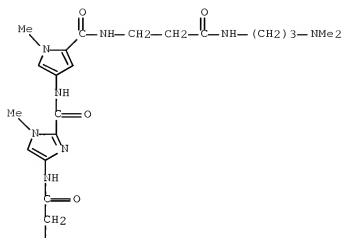


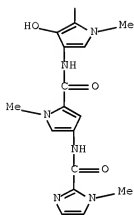
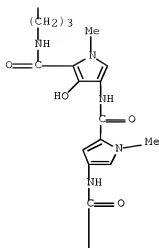


RN 212446-83-8 HCAPLUS

CN β -Alaninamide, 1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl- β -alanyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl- β -alanyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)



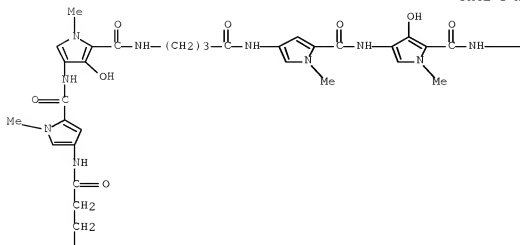




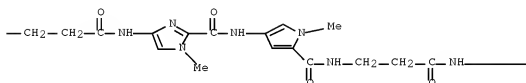
RN 212446-87-2 HCAPLUS

CN β -Alaninamide, 1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl- β -alanyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl- β -alanyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)

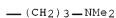
PAGE 1-A

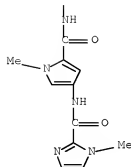


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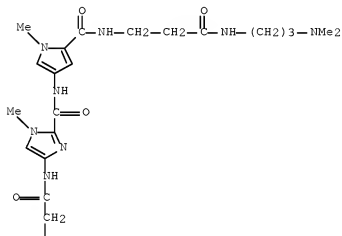
PAGE 1-C

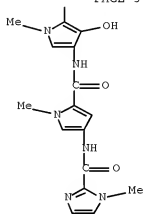
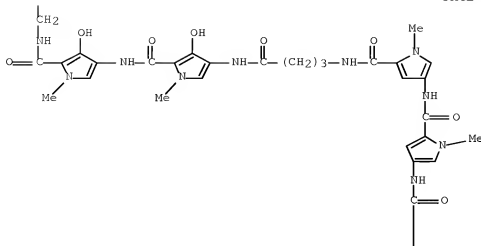




RN 212446-88-3 HCAPLUS

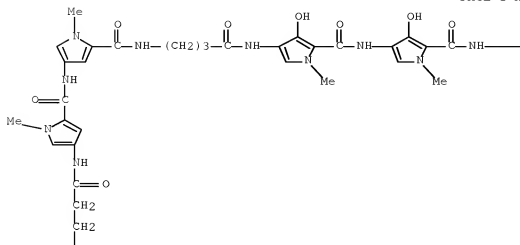
CN 1H-imidazole-2-carboxamide, N-[5-[[[3-[[3-(dimethylamino)propyl]amino]-3-oxopropyl]amino]carbonyl]-1-methyl-1H-pyrrol-3-yl]-4-[[3-[[[3-hydroxy-4-[[[3-hydroxy-4-[[4-[[[4-[[[4-[[[3-hydroxy-1-methyl-4-[[[1-methyl-4-[[[1-methyl-1H-imidazol-2-yl]carbonyl]amino]-1H-pyrrol-2-yl]carbonyl]amino]-1H-pyrrol-2-yl]carbonyl]amino]-1-methyl-1H-pyrrol-2-yl]carbonyl]amino]-1-methyl-1H-pyrrol-2-yl]carbonyl]amino]-1-methyl-1H-pyrrol-2-yl]carbonyl]amino]-1-oxobutyl]amino]-1-methyl-1H-pyrrol-2-yl]carbonyl]amino]-1-methyl-1H-pyrrol-2-yl]carbonyl]amino]-1-oxopropyl]amino]-1-methyl- (CA INDEX NAME)



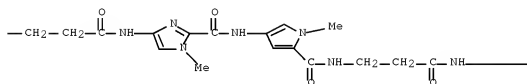


RN 212446-89-4 HCAPLUS
 CN β-Alaninamide, 1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-β-alanyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-β-alanyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)

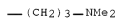
PAGE 1-A

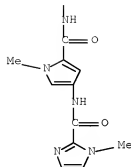


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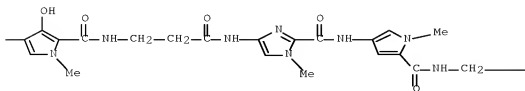
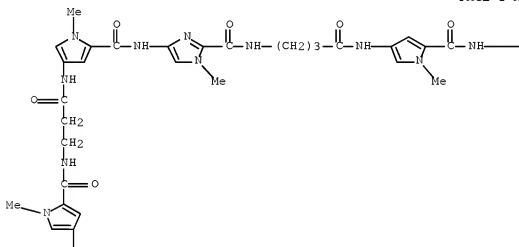
PAGE 1-C



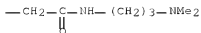


RN 212446-90-7 HCAPLUS

CN β-Alaninamide, 1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-β-alanyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-β-alanyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)



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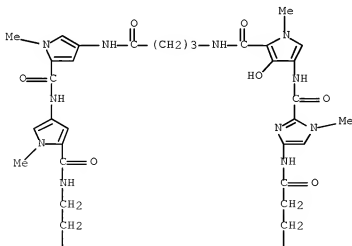
PAGE 2-A



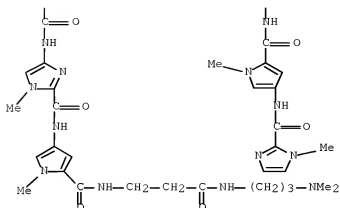
RN 212446-93-0 HCAPLUS

CN β-Alaninamide, 1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-β-alanyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-β-alanyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-N-(3-(dimethylamino)propyl)- (9CI) (CA INDEX NAME)

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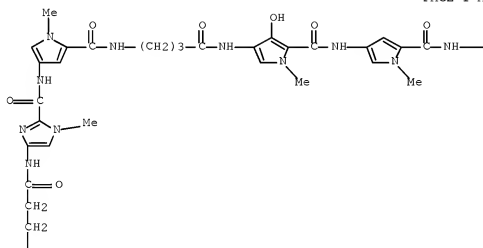
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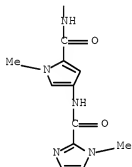
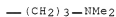
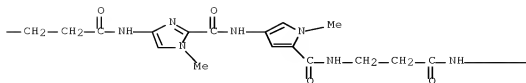


RN 212446-94-1 HCAPLUS

CN 1H-Imidazole-2-carboxamide, N-[5-[[[4-[[5-[[[5-[[[3-[[2-[[[5-[[[3-[[3-(dimethylamino)propyl]amino]-3-oxopropyl]amino]carbonyl]-1-methyl-1H-pyrrol-3-yl]amino]carbonyl]-1-methyl-1H-imidazol-4-yl]amino]-3-oxopropyl]amino]carbonyl]-1-methyl-1H-pyrrol-3-yl]amino]carbonyl]-4-hydroxy-1-methyl-1H-pyrrol-3-yl]amino]-4-oxobutyl]amino]carbonyl]-1-methyl-1H-pyrrol-3-yl]-1-methyl-4-[[3-[[[1-methyl-4-[[1-methyl-1H-imidazol-2-yl]carbonyl]amino]-1H-pyrrol-2-yl]carbonyl]amino]-1-oxopropyl]amino]- (CA INDEX NAME)

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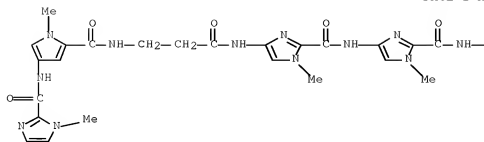




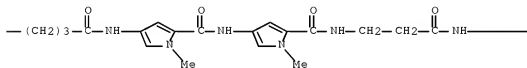
RN 212446-95-2 HCAPLUS

CN β -Alaninamide, 1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl- β -alanyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl- β -alanyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)

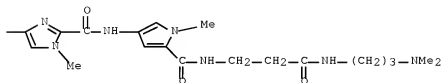
PAGE 1-A



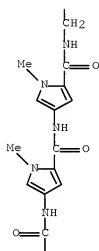
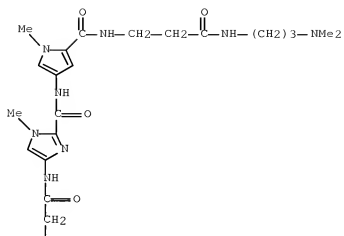
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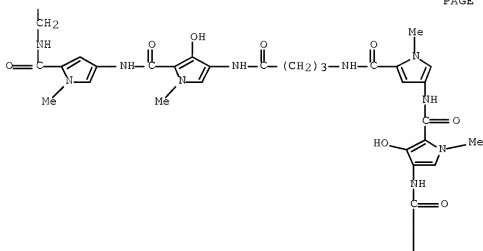
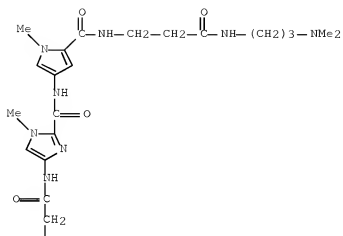


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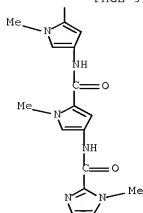


RN 212447-03-5 HCAPLUS
 CN 1H-imidazole-2-carboxamide, N-[5-[[[3-[[3-(dimethylamino)propyl]amino]-3-oxopropyl]amino]carbonyl]-1-methyl-1H-pyrrol-3-yl]-4-[[3-[[[4-[[4-[[4-[[[3-hydroxy-4-[[[3-hydroxy-1-methyl-4-[[[1-methyl-4-[[[1-methyl-4-[[[1-methyl-1H-imidazol-2-yl]carbonyl]amino]-1H-pyrrol-2-yl]carbonyl]amino]-1H-pyrrol-2-yl]carbonyl]amino]-1H-pyrrol-2-yl]carbonyl]amino]-1-oxobutyl]amino]-1-methyl-1H-pyrrol-2-yl]carbonyl]amino]-1-methyl-1H-pyrrol-2-yl]carbonyl]amino]-1-oxobutyl]amino]-1-methyl-1H-pyrrol-2-yl]carbonyl]amino]-1-methyl-1H-pyrrol-2-yl]carbonyl]amino]-1-oxopropyl]amino]-1-methyl- (CA INDEX NAME)





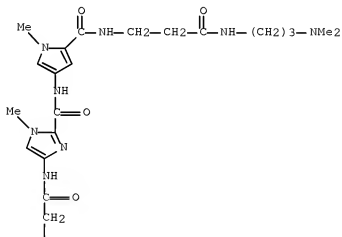
PAGE 3-A

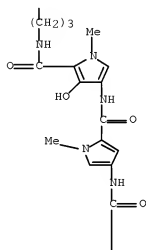
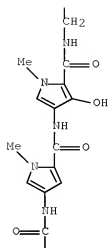


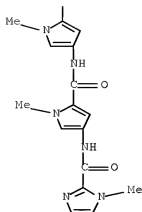
RN 212447-06-8 HCAPLUS

CN 1H-Imidazole-2-carboxamide, N-[5-[[[3-[[3-(dimethylamino)propyl]amino]-3-oxopropyl]amino]carbonyl]-1-methyl-1H-pyrrol-3-yl]-4-[[3-[[[3-hydroxy-4-[[[4-[[4-[[[3-hydroxy-1-methyl-4-[[[1-methyl-4-[[[1-methyl-4-[[[1-methyl-4-[[[1-methyl-4-[[[1-methyl-1H-imidazol-2-yl]carbonyl]amino]-1H-pyrrol-2-yl]carbonyl]amino]-1H-pyrrol-2-yl]carbonyl]amino]-1H-pyrrol-2-yl]carbonyl]amino]-1H-pyrrol-2-yl]carbonyl]amino]-1-oxobutyl]amino]-1-methyl-1H-pyrrol-2-yl]carbonyl]amino]-1-methyl-1H-pyrrol-2-yl]carbonyl]amino]-1-oxopropyl]amino]-1-methyl- (CA INDEX NAME)

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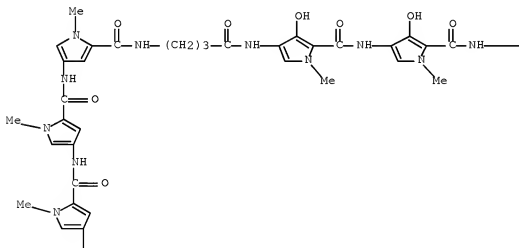


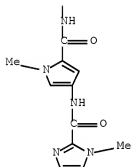
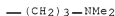
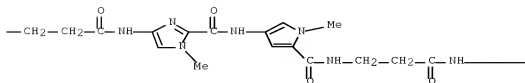




RN 212447-07-9 HCAPLUS

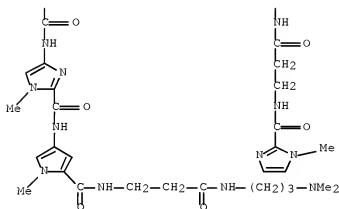
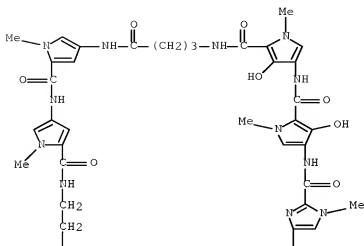
CN 1H-imidazole-2-carboxamide, N-[5-[[[3-[[3-(dimethylamino)propyl]amino]-3-oxopropyl]amino]carbonyl]-1-methyl-1H-pyrrol-3-yl]-4-[[[3-[[3-hydroxy-4-[[[3-hydroxy-1-methyl-4-[[4-[[[1-methyl-4-[[[1-methyl-4-[[[1-methyl-4-[[[1-methyl-4-[[[1-methyl-1H-imidazol-2-yl]carbonyl]amino]-1H-pyrrol-2-yl]carbonyl]amino]-1H-pyrrol-2-yl]carbonyl]amino]-1H-pyrrol-2-yl]carbonyl]amino]-1H-pyrrol-2-yl]carbonyl]amino]-1-oxobutyl]amino]-1H-pyrrol-2-yl]carbonyl]amino]-1-methyl-1H-pyrrol-2-yl]carbonyl]amino]-1-oxopropyl]amino]-1-methyl- (CA INDEX NAME)



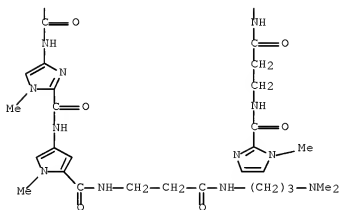
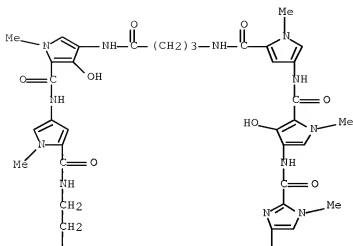


RN 212447-12-6 HCAPLUS

CN 1H-Imidazole-2-carboxamide, N-[5-[[[5-[[[4-[[5-[[[3-[[2-[[[5-[[[3-[[3-(dimethylamino)propyl]amino]-3-oxopropyl]amino]carbonyl]-1-methyl-1H-pyrrol-3-yl]amino]carbonyl]-1-methyl-1H-imidazol-4-yl]amino]-3-oxopropyl]amino]carbonyl]-1-methyl-1H-pyrrol-3-yl]amino]carbonyl]-1-methyl-1H-pyrrol-3-yl]amino]-4-oxobutyl]amino]carbonyl]-4-hydroxy-1-methyl-1H-pyrrol-3-yl]amino]carbonyl]-4-hydroxy-1-methyl-1H-pyrrol-3-yl]-1-methyl-4-[[3-[[[(1-methyl-1H-imidazol-2-yl)carbonyl]amino]-1-oxopropyl]amino]- (CA INDEX NAME)

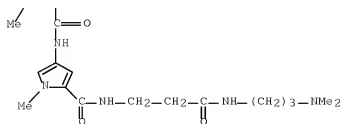
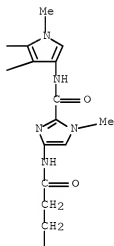
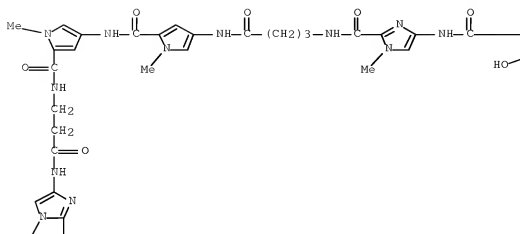


RN 212447-13-7 HCAPLUS
 CN 1H-Imidazole-2-carboxamide, N-[5-[[[5-[[[4-[[[5-[[[5-[[[3-[[[2-[[[5-[[[3-[[3-(dimethylamino)propyl]amino]-3-oxopropyl]amino]carbonyl]-1-methyl-1H-pyrrol-3-yl]amino]carbonyl]-1-methyl-1H-imidazol-4-yl]amino]-3-oxopropyl]amino]carbonyl]-1-methyl-1H-pyrrol-3-yl]amino]carbonyl]-4-hydroxy-1-methyl-1H-pyrrol-3-yl]amino]-4-oxobutyl]amino]carbonyl]-1-methyl-1H-pyrrol-3-yl]amino]carbonyl]-4-hydroxy-1-methyl-1H-pyrrol-3-yl]-1-methyl-4-[[[3-[[[1-methyl-1H-imidazol-2-yl]carbonyl]amino]-1-oxopropyl]amino]]-(CA INDEX NAME)



RN 212447-14-8 HCAPLUS

CN β -Alaninamide, 1-methyl-1H-imidazole-2-carbonyl- β -alanyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl- β -alanyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)



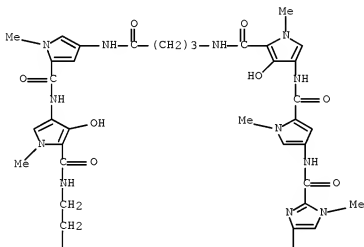
PAGE 2-B

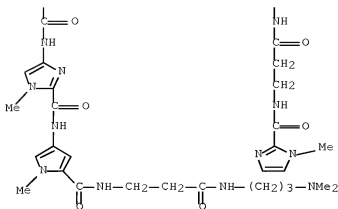


RN 212447-16-0 HCAPLUS

CN β -Alaninamide, 1-methyl-1H-imidazole-2-carbonyl- β -alanyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl- β -alanyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)

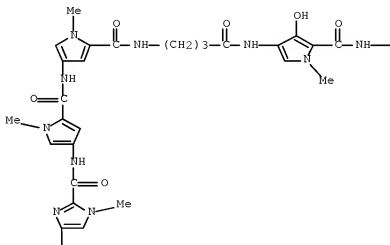
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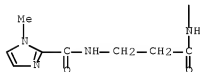
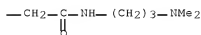
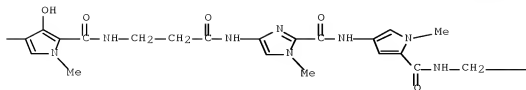




RN 212447-17-1 HCAPLUS

CN β -Alaninamide, 1-methyl-1H-imidazole-2-carbonyl- β -alanyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl- β -alanyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)

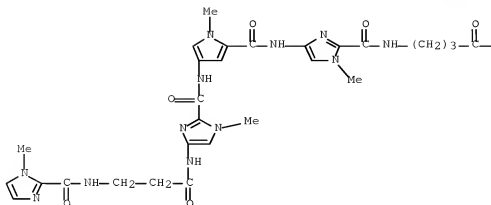




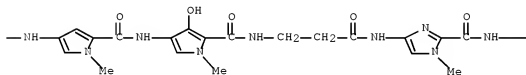
RN 212447-18-2 HCAPLUS

CN β -Alaninamide, 1-methyl-1H-imidazole-2-carbonyl- β -alanyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl- β -alanyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-N-(3-(dimethylamino)propyl)- (9CI) (CA INDEX NAME)

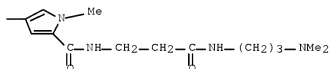
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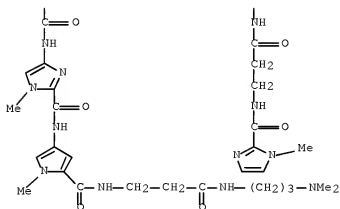
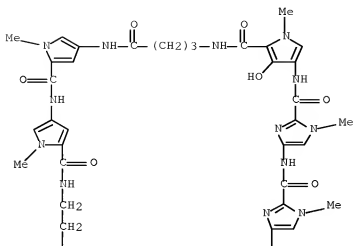


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RN 212447-20-6 HCAPLUS

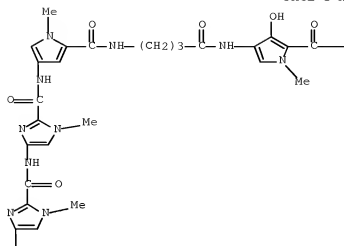
CN β -Alaninamide, 1-methyl-1H-imidazole-2-carbonyl- β -alanyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl- β -alanyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)



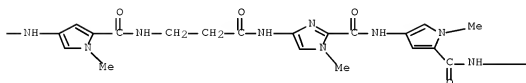
RN 212447-21-7 HCAPLUS

CN β -Alaninamide, 1-methyl-1H-imidazole-2-carbonyl- β -alanyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl- β -alanyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)

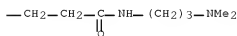
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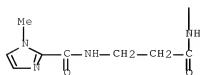
PAGE 1-B



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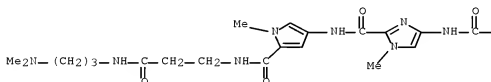
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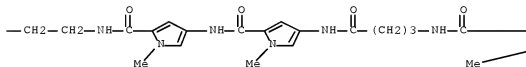
RN 212447-37-5 HCAPLUS

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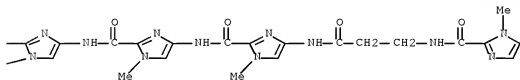
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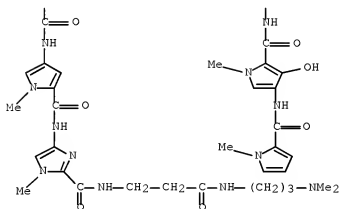
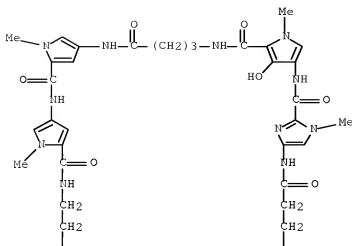


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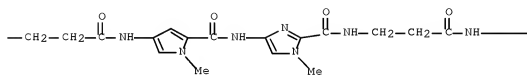
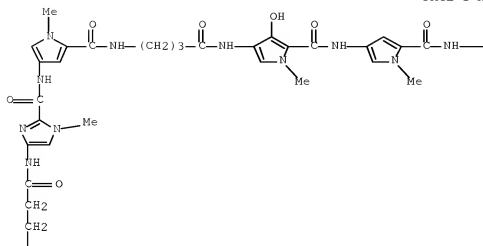


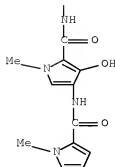
RN 212448-31-2 HCAPLUS

CN β-Alaninamide, 2,3,4,5-tetradehydro-1-methylprolyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-β-alanyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-β-alanyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)



RN 212448-32-3 HCAPLUS
 CN β -Alaninamide, 2,3,4,5-tetradehydro-1-methylprolyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl- β -alanyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl- β -alanyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)

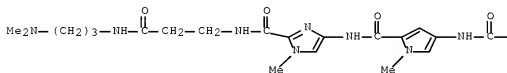




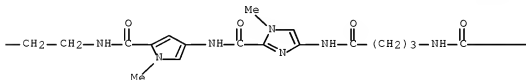
RN 212448-34-5 HCAPLUS

CN β -Alaninamide, 2,3,4,5-tetradehydro-1-methylprolyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl- β -alanyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl- β -alanyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)

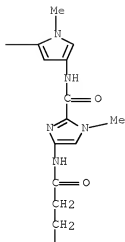
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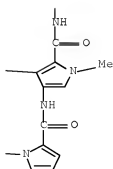


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HO_____

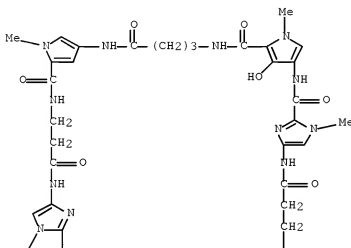
Me_____

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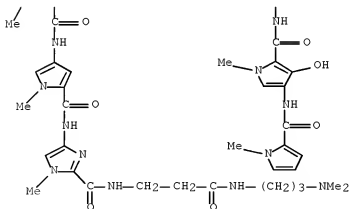


CN 1H-Imidazole-2-carboxamide, N-[5-[[[2-[[[3-[[3-(dimethylamino)propyl]amino]carbonyl]-1-methyl-1H-imidazol-4-yl]amino]carbonyl]-1-methyl-1H-pyrrol-3-yl]-4-[[3-[[[4-[[[4-[[[3-hydroxy-4-[[[4-[[[3-[[[3-hydroxy-1-methyl-4-[[[1-methyl-1H-pyrrol-2-yl]carbonyl]amino]-1H-pyrrol-2-yl]carbonyl]amino]-1-oxopropyl]amino]-1-methyl-1H-imidazol-2-yl]carbonyl]amino]-1-methyl-1H-pyrrol-2-yl]carbonyl]amino]-1-oxobutyl]amino]-1-methyl-1H-pyrrol-2-yl]carbonyl]amino]-1-oxopropyl]amino]-1-methyl- (CA INDEX NAME)

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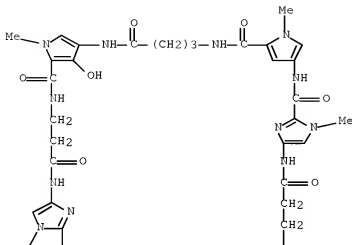


RN 212448-80-1 HCAPLUS

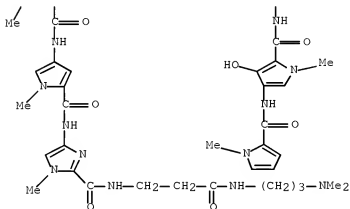
CN 1H-Imidazole-2-carboxamide, N-[5-[[[2-[[[3-[[3-(dimethylamino)propyl]amino]carbonyl]-1-methyl-1H-imidazol-4-yl]amino]carbonyl]-1-methyl-1H-pyrrol-3-yl]-4-[[3-[[[4-[[[4-[[[3-[[[3-hydroxy-1-methyl-4-[[[1-methyl-1H-pyrrol-2-yl]carbonyl]amino]-1H-pyrrol-2-yl]carbonyl]amino]-1-oxopropyl]amino]-1-

methyl-1H-imidazol-2-yl]carbonyl]amino]-1-methyl-1H-pyrrol-2-yl]carbonyl]amino]-1-oxobutyl]amino]-1-methyl-1H-pyrrol-2-yl]carbonyl]amino]-1-oxopropyl]amino]-1-methyl- (CA INDEX NAME)

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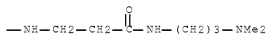
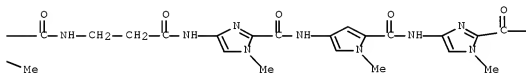
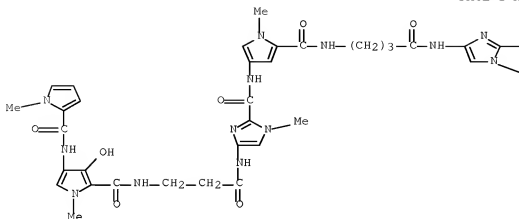


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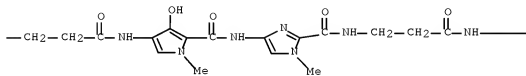
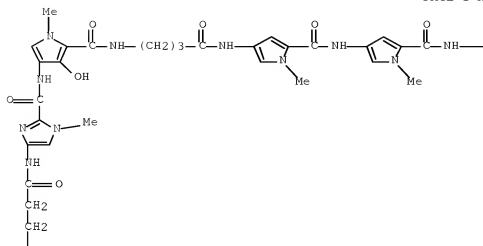
RN 212448-86-7 HCAPLUS

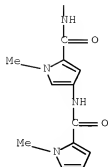
CN β -Alaninamide, 2,3,4,5-tetradecahydro-1-methylprolyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl- β -alanyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl- β -alanyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)



RN 212449-04-2 HCAPLUS

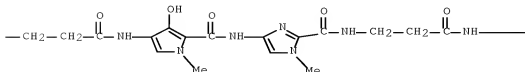
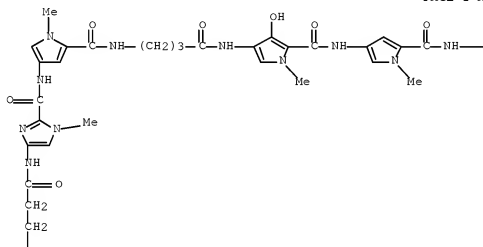
CN β -Alaninamide, 2,3,4,5-tetradehydro-1-methylprolyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl- β -alanyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl- β -alanyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI)
(CA INDEX NAME)





RN 212449-05-3 HCAPLUS

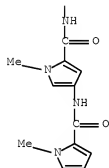
CN β -Alaninamide, 2,3,4,5-tetradehydro-1-methylprolyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl- β -alanyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl- β -alanyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI)
(CA INDEX NAME)



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— (CH₂)₃ — NMe₂

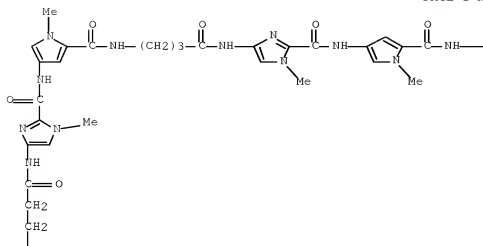
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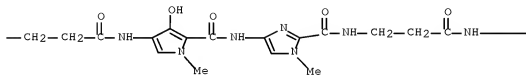
RN 212449-07-5 HCAPLUS

CN β-Alaninamide, 2,3,4,5-tetradecahydro-1-methylprolyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-β-alanyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-β-alanyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)

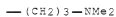
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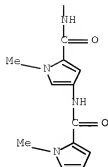


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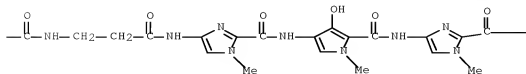
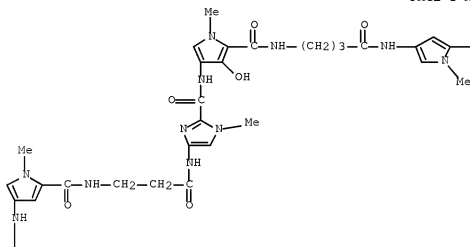
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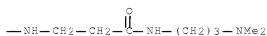


RN 212449-51-9 HCAPLUS

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(CA INDEX NAME)



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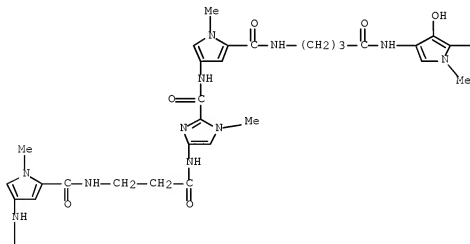
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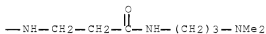
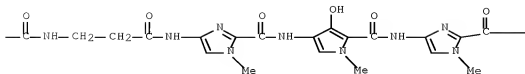


RN 212449-52-0 HCAPLUS

CN β -Alaninamide, 2,3,4,5-tetradehydro-1-methylprolyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl- β -alanyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl- β -alanyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI)
(CA INDEX NAME)

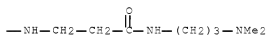
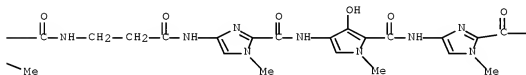
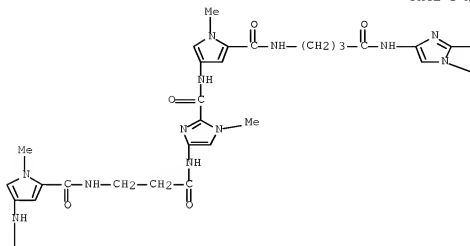
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RN 212449-56-4 HCAPLUS

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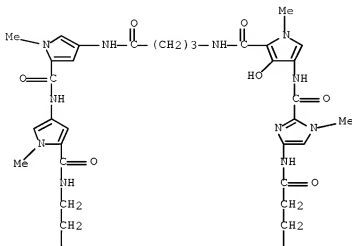


RN 212449-73-5 HCAPLUS

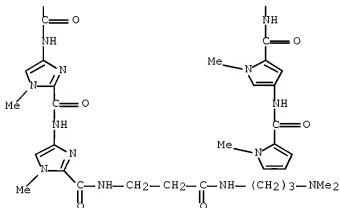
CN β -Alaninamide, 2,3,4,5-tetradehydro-1-methylpropyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl- β -alanyl-4-amino-1-methyl-1H-imidazole-2-

carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-β-alanyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)

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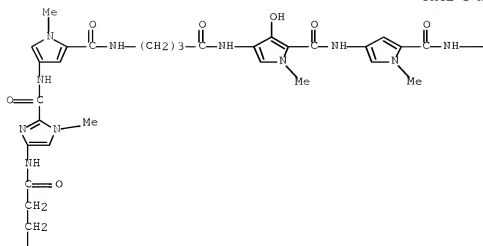


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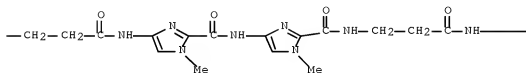


RN 212449-74-6 HCAPLUS
 CN 1H-Imidazole-2-carboxamide, N-[2-[[[3-[[3-(dimethylamino)propyl]amino]-3-oxopropyl]amino]carbonyl]-1-methyl-1H-imidazol-4-yl]-4-[[3-[[[4-[[[3-hydroxy-1-methyl-4-[[4-[[[1-methyl-4-[[[1-methyl-4-[[[3-[[[1-methyl-4-[[[1-methyl-1H-pyrrol-2-yl]carbonyl]amino]-1H-pyrrol-2-yl]carbonyl]amino]-1-oxopropyl]amino]-1H-imidazol-2-yl]carbonyl]amino]-1H-pyrrol-2-yl]carbonyl]amino]-1-oxobutyl]amino]-1H-pyrrol-2-yl]carbonyl]amino]-1-methyl-1H-pyrrol-2-yl]carbonyl]amino]-1-oxopropyl]amino]-1-methyl- (CA INDEX NAME)

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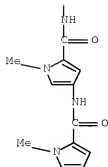


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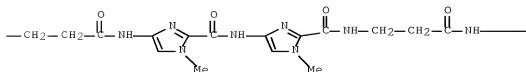
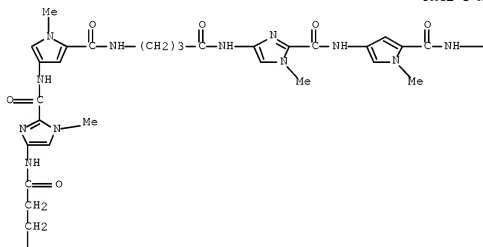
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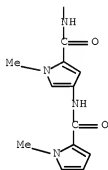


RN 212449-76-8 HCAPLUS

CN β -Alaninamide, 2,3,4,5-tetradehydro-1-methylprolyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl- β -alanyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl- β -alanyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)



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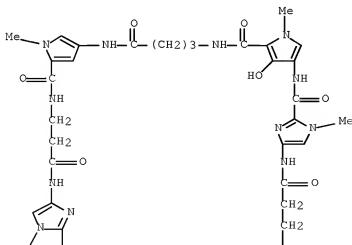
— (CH₂)₃ — NMe₂

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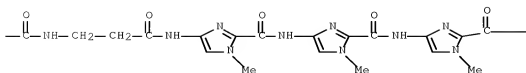
RN 212450-16-3 HCAPLUS

CN β -Alaninamide, 2,3,4,5-tetradehydro-1-methylpropyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl- β -alanyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl- β -alanyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)

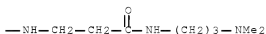
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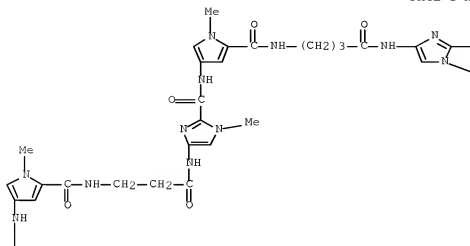
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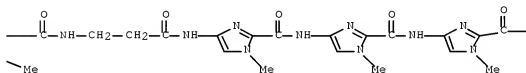
RN 212450-23-2 HCAPLUS

CN β -Alaninamide, 2,3,4,5-tetradehydro-1-methylpropyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl- β -alanyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-imidazole-2-carbonyl- β -alanyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)

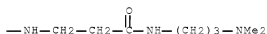
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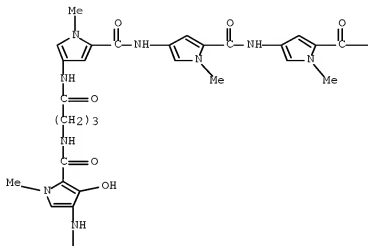
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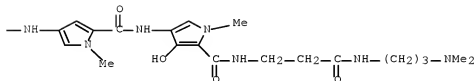
RN 212450-85-6 HCAPLUS
 CN 1H-Imidazole-2-carboxamide, N-[5-[[[4-[[5-[[[5-[[[5-[[[5-[[[3-[[3-(dimethylamino)propyl]amino]-3-oxopropyl]amino]carbonyl]-4-hydroxy-1-methyl-1H-pyrrol-3-yl]amino]carbonyl]-1-methyl-1H-pyrrol-3-

yl]amino]carbonyl]-1-methyl-1H-pyrrol-3-yl]amino]carbonyl]-1-methyl-1H-pyrrol-3-yl]amino]carbonyl]-1-methyl-1H-pyrrol-3-yl]amino]-4-oxobutyl]amino]carbonyl]-4-hydroxy-1-methyl-1H-pyrrol-3-yl]-4-[[[3-hydroxy-1-methyl-4-[[[(1-methyl-1H-pyrrol-2-yl)carbonyl]amino]-1H-pyrrol-2-yl]carbonyl]amino]-1-oxopropyl]amino]-1-methyl- (CA INDEX NAME)

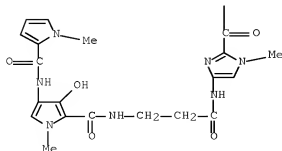
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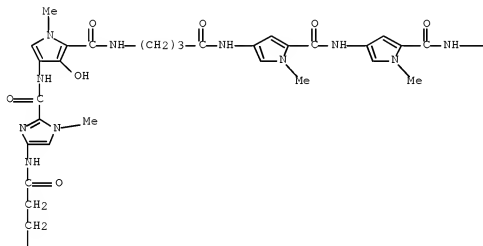


RN 212450-86-7 HCAPLUS

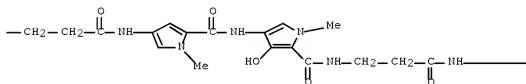
CN 1H-Imidazole-2-carboxamide, N-[5-[[[4-[[5-[[[3-[[5-[[[3-[[3-(dimethylamino)propyl]amino]-3-oxopropyl]amino]carbonyl]-4-hydroxy-1-methyl-1H-pyrrol-3-yl]amino]carbonyl]-1-methyl-1H-pyrrol-3-yl]amino]-3-oxopropyl]amino]carbonyl]-1-methyl-1H-pyrrol-3-yl]amino]carbonyl]-1-methyl-1H-pyrrol-3-yl]amino]-4-oxobutyl]amino]carbonyl]-4-hydroxy-1-methyl-1H-pyrrol-3-yl]-4-[[3-[[[3-hydroxy-1-methyl-4-[[[1-methyl-1H-pyrrol-2-yl]carbonyl]amino]-1H-pyrrol-2-yl]carbonyl]amino]-1-oxopropyl]amino]-1-methyl-

(CA INDEX NAME)

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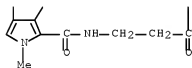
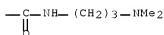
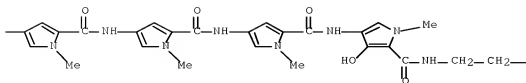


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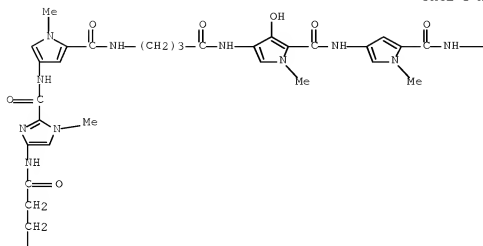
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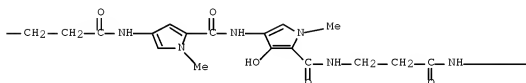


RN 212450-88-9 HCAPLUS
 CN 1H-Imidazole-2-carboxamide, N-[5-[[[4-[[5-[[[3-[[5-[[[3-[[[3-(dimethylamino)propyl]amino]-3-oxopropyl]amino]carbonyl]-4-hydroxy-1-methyl-1H-pyrrol-3-yl]amino]carbonyl]-1-methyl-1H-pyrrol-3-yl]amino]-3-oxopropyl]amino]carbonyl]-1-methyl-1H-pyrrol-3-yl]amino]carbonyl]-4-hydroxy-1-methyl-1H-pyrrol-3-yl]amino]-4-oxobutyl]amino]carbonyl]-1-methyl-1H-pyrrol-3-yl]-4-[[[3-[[[3-hydroxy-1-methyl-4-[[[1-methyl-1H-pyrrol-2-yl]carbonyl]amino]-1H-pyrrol-2-yl]carbonyl]amino]-1-oxopropyl]amino]-1-methyl- (CA INDEX NAME)

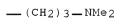
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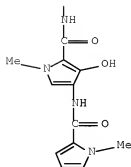


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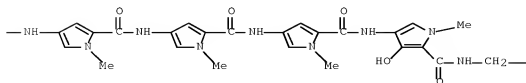
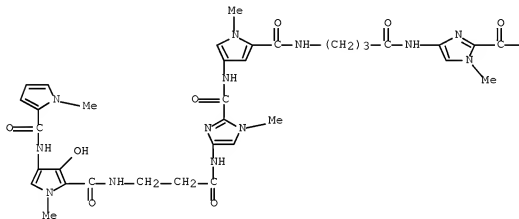
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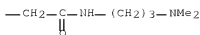


RN 212450-90-3 HCAPLUS

CN β -Alaninamide, 2,3,4,5-tetradehydro-1-methylprolyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl- β -alanyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)



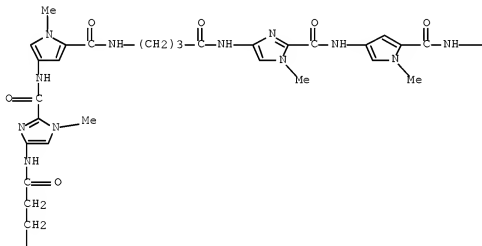
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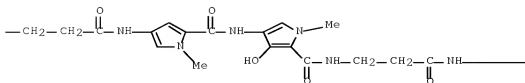
RN 212450-91-4 HCAPLUS

CN β -Alaninamide, 2,3,4,5-tetradehydro-1-methylpropyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl- β -alanyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl- β -alanyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)

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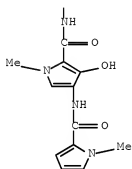
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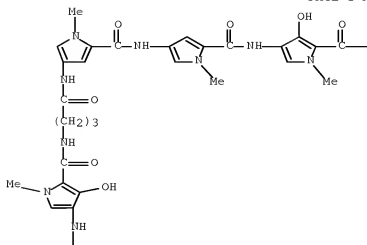
— (CH₂)₃—NMe₂

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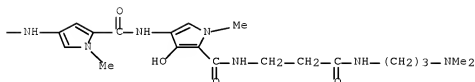


RN 212450-96-9 HCAPLUS
 CN 1H-Imidazole-2-carboxamide, N-[5-[[[4-[[5-[[[5-[[[5-[[[5-[[[3-[[3-(dimethylamino)propyl]amino]-3-oxopropyl]amino]carbonyl]-4-hydroxy-1-methyl-1H-pyrrol-3-yl]amino]carbonyl]-1-methyl-1H-pyrrol-3-yl]amino]carbonyl]-4-hydroxy-1-methyl-1H-pyrrol-3-yl]amino]carbonyl]-1-methyl-1H-pyrrol-3-yl]amino]carbonyl]-1-methyl-1H-pyrrol-3-yl]amino]-4-oxobutyl]amino]carbonyl]-4-hydroxy-1-methyl-1H-pyrrol-3-yl]-4-[[[3-hydroxy-1-methyl-4-[(1-methyl-1H-pyrrol-2-yl)carbonyl]amino]-1H-pyrrol-2-yl]carbonyl]amino]-1-oxopropyl]amino]-1-methyl- (CA INDEX NAME)

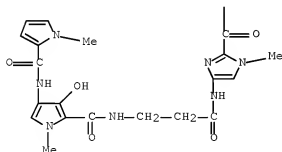
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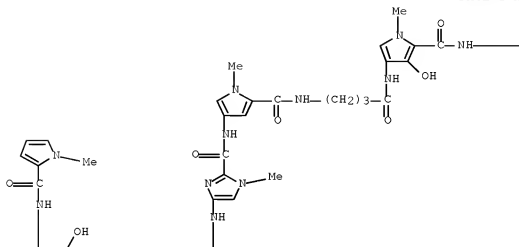


RN 212450-97-0 HCAPLUS

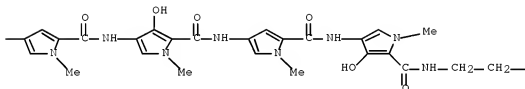
CN 1H-Imidazole-2-carboxamide, N-[5-[[[4-[[5-[[[5-[[[5-[[[3-[[3-(dimethylamino)propyl]amino]-3-oxopropyl]amino]carbonyl]-4-hydroxy-1-methyl-1H-pyrrol-3-yl]amino]carbonyl]-1-methyl-1H-pyrrol-3-yl]amino]carbonyl]-4-hydroxy-1-methyl-1H-pyrrol-3-yl]amino]carbonyl]-4-hydroxy-1-methyl-1H-pyrrol-3-yl]amino]carbonyl]-4-hydroxy-1-methyl-1H-pyrrol-3-yl]amino]carbonyl]-1-methyl-1H-pyrrol-3-yl]-4-[[3-[[[3-

hydroxy-1-methyl-4-[[(1-methyl-1H-pyrrol-2-yl)carbonyl]amino]-1H-pyrrol-2-yl]carbonyl]amino]-1-oxopropyl]amino]-1-methyl- (CA INDEX NAME)

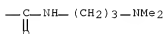
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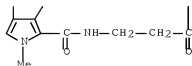


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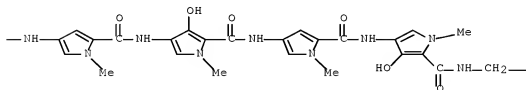
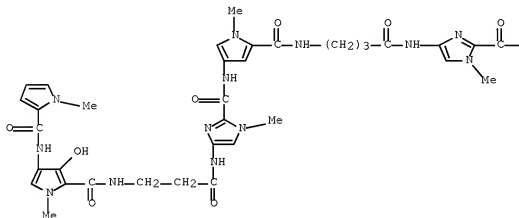
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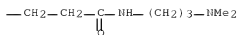




RN 212451-00-8 HCAPLUS

CN β -Alaninamide, 2,3,4,5-tetradecahydro-1-methylprolyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl- β -alanyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-N-(3-(dimethylamino)propyl)- (9CI) (CA INDEX NAME)

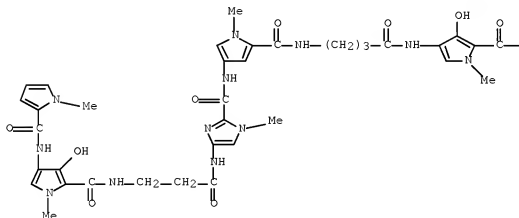




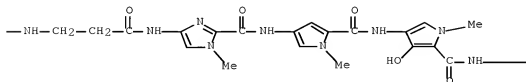
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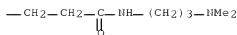
CN β -Alaninamide, 2,3,4,5-tetradehydro-1-methylpropyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl- β -alanyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl- β -alanyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI)
(CA INDEX NAME)

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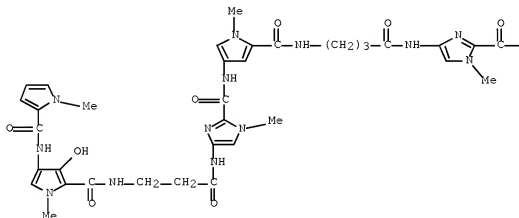




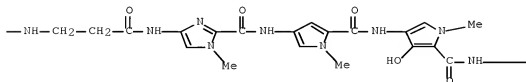
RN 212451-52-0 HCAPLUS

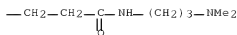
CN β-Alaninamide, 2,3,4,5-tetradehydro-1-methylprolyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-β-alanyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-β-alanyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI)
(CA INDEX NAME)

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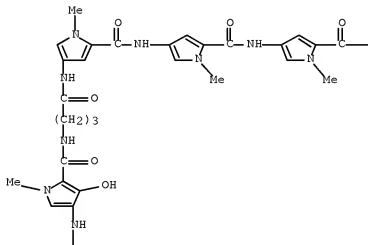




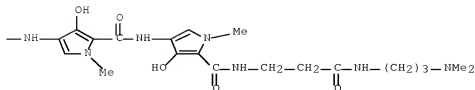
RN 212451-60-0 HCAPLUS

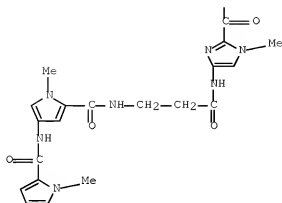
CN 1H-Imidazole-2-carboxamide, N-[5-[[[4-[[5-[[[5-[[[5-[[[5-[[[3-[[3-(dimethylamino)propyl]amino]-3-oxopropyl]amino]carbonyl]-4-hydroxy-1-methyl-1H-pyrrol-3-yl]amino]carbonyl]-4-hydroxy-1-methyl-1H-pyrrol-3-yl]amino]carbonyl]-1-methyl-1H-pyrrol-3-yl]amino]carbonyl]-1-methyl-1H-pyrrol-3-yl]amino]carbonyl]-1-methyl-1H-pyrrol-3-yl]amino]-4-oxobutyl]amino]carbonyl]-4-hydroxy-1-methyl-1H-pyrrol-3-yl]-1-methyl-4-[[[3-[[[1-methyl-4-[[[1-methyl-1H-pyrrol-2-yl]carbonyl]amino]-1H-pyrrol-2-yl]carbonyl]amino]-1-oxopropyl]amino]- (CA INDEX NAME)

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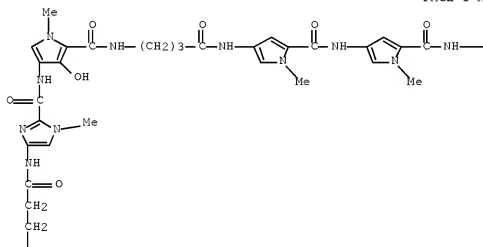
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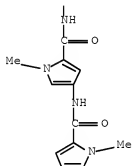
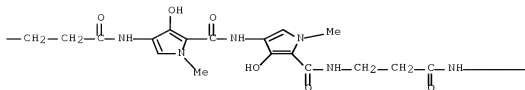




RN 212451-61-1 HCAPLUS

CN 1H-Imidazole-2-carboxamide, N-[5-[[[4-[[5-[[[3-[[5-[[[3-[[3-(dimethylamino)propyl]amino]-3-oxopropyl]amino]carbonyl]-4-hydroxy-1-methyl-1H-pyrrol-3-yl]amino]carbonyl]-4-hydroxy-1-methyl-1H-pyrrol-3-yl]amino]-3-oxopropyl]amino]carbonyl]-1-methyl-1H-pyrrol-3-yl]amino]carbonyl]-1-methyl-1H-pyrrol-3-yl]amino]-4-oxobutyl]amino]carbonyl]-4-hydroxy-1-methyl-1H-pyrrol-3-yl]-1-methyl-4-[[[1-methyl-4-[[[1-methyl-1H-pyrrol-2-yl]carbonyl]amino]-1H-pyrrol-2-yl]carbonyl]amino]-1-oxopropyl]amino]- (CA INDEX NAME)

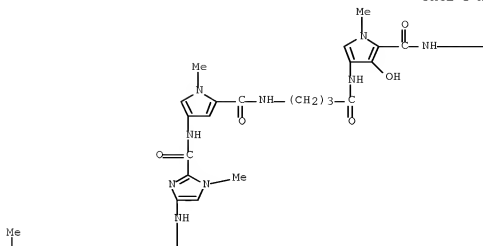




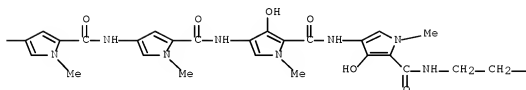
RN 212451-62-2 HCAPLUS

CN 1H-Imidazole-2-carboxamide, N-[5-[[[4-[[5-[[[5-[[[5-[[[5-[[[3-[[3-(dimethylamino)propyl]amino]-3-oxopropyl]amino]carbonyl]-4-hydroxy-1-methyl-1H-pyrrol-3-yl]amino]carbonyl]-4-hydroxy-1-methyl-1H-pyrrol-3-yl]amino]carbonyl]-1-methyl-1H-pyrrol-3-yl]amino]carbonyl]-1-methyl-1H-pyrrol-3-yl]amino]carbonyl]-4-hydroxy-1-methyl-1H-pyrrol-3-yl]amino]-4-oxobutyl]amino]carbonyl]-1-methyl-1H-pyrrol-3-yl]-1-methyl-4-[[3-[[[1-methyl-4-[[[(1-methyl-1H-pyrrol-2-yl)carbonyl]amino]-1H-pyrrol-2-yl]carbonyl]amino]-1-oxopropyl]amino]- (CA INDEX NAME)

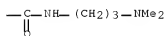
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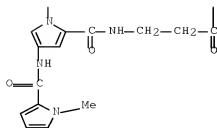


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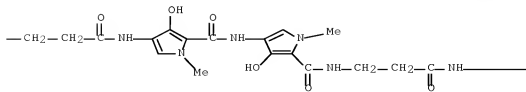
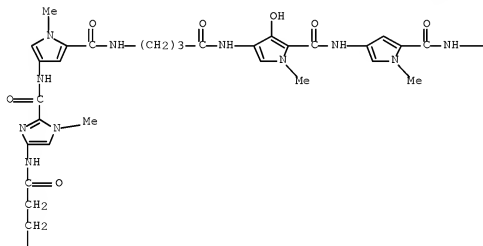
PAGE 1-C





RN 212451-63-3 HCAPLUS

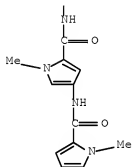
CN 1H-Imidazole-2-carboxamide, N-[5-[[[4-[[5-[[[3-[[5-[[[5-[[[3-[[3-(dimethylamino)propyl]amino]-3-oxopropyl]amino]carbonyl]-4-hydroxy-1-methyl-1H-pyrrol-3-yl]amino]carbonyl]-4-hydroxy-1-methyl-1H-pyrrol-3-yl]amino]-3-oxopropyl]amino]carbonyl]-1-methyl-1H-pyrrol-3-yl]amino]carbonyl]-4-hydroxy-1-methyl-1H-pyrrol-3-yl]amino]-4-oxobutyl]amino]carbonyl]-1-methyl-1H-pyrrol-3-yl]-1-methyl-4-[[3-[[[1-methyl-4-[[[1-methyl-1H-pyrrol-2-yl]carbonyl]amino]-1H-pyrrol-2-yl]carbonyl]amino]-1-oxopropyl]amino]- (CA INDEX NAME)



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— (CH₂)₃ — NMe₂

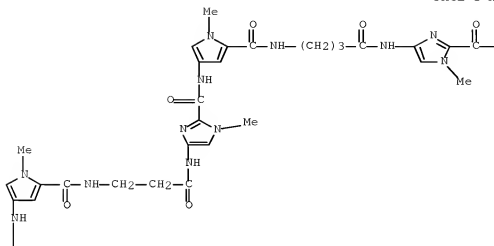
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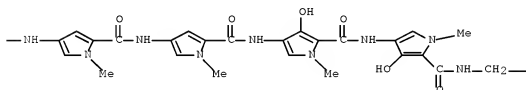
RN 212451-66-6 HCAPLUS

CN β -Alaninamide, 2,3,4,5-tetradehydro-1-methylpropyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl- β -alanyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)

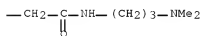
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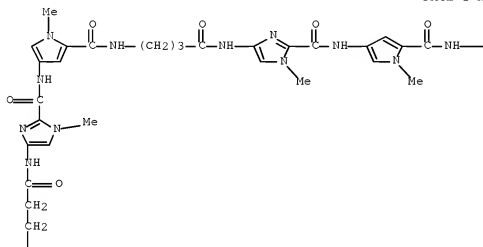
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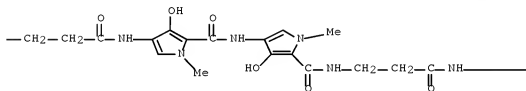
RN 212451-67-7 HCAPLUS

CN β -Alaninamide, 2,3,4,5-tetradehydro-1-methylprolyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl- β -alanyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl- β -alanyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI)
(CA INDEX NAME)

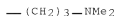
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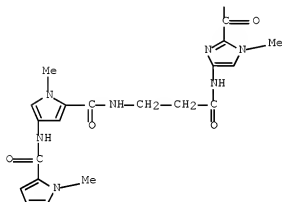
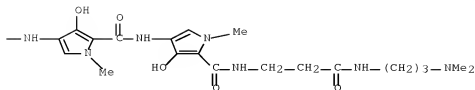


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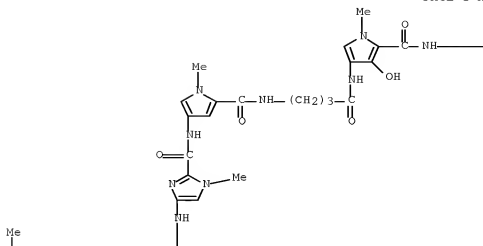




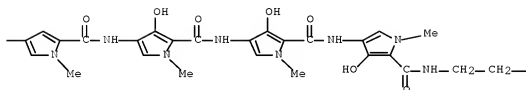
RN 212451-73-5 HCAPLUS

CN 1H-Imidazole-2-carboxamide, N-[5-[[[4-[[5-[[[5-[[[5-[[[5-[[[3-[[3-(dimethylamino)propyl]amino]-3-oxopropyl]amino]carbonyl]-4-hydroxy-1-methyl-1H-pyrrol-3-yl]amino]carbonyl]-4-hydroxy-1-methyl-1H-pyrrol-3-yl]amino]carbonyl]-4-hydroxy-1-methyl-1H-pyrrol-3-yl]amino]carbonyl]-4-hydroxy-1-methyl-1H-pyrrol-3-yl]amino]carbonyl]-4-oxobutyl]amino]carbonyl]-1-methyl-1H-pyrrol-3-yl]-1-methyl-4-[[3-[[[1-methyl-4-[[[(1-methyl-1H-pyrrol-2-yl)carbonyl]amino]-1H-pyrrol-2-yl]carbonyl]amino]-1-oxopropyl]amino]- (CA INDEX NAME)

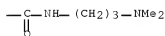
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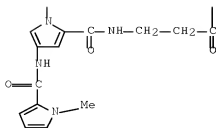


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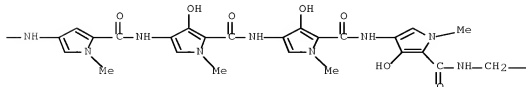
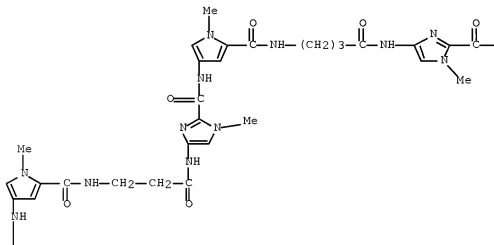
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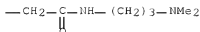


RN 212451-75-7 HCAPLUS

CN β -Alaninamide, 2,3,4,5-tetradehydro-1-methylpropyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl- β -alanyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)



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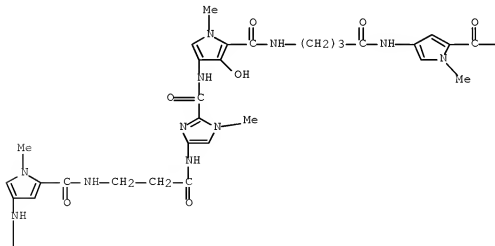
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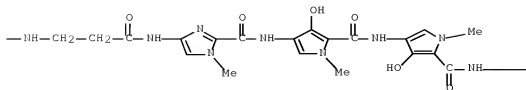
RN 212452-08-9 HCAPLUS

CN β -Alaninamide, 2,3,4,5-tetradehydro-1-methylpropyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl- β -alanyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl- β -alanyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]-(9CI) (CA INDEX NAME)

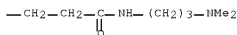
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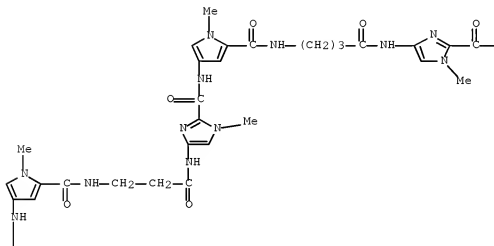
RN 212452-15-8 HCAPLUS

CN β -Alaninamide, 2,3,4,5-tetradecahydro-1-methylpropyl-4-amino-1-methyl-1H-pyrrole-2-carboxyl- β -alanyl-4-amino-1-methyl-1H-imidazole-2-carboxyl-4-amino-1-methyl-1H-pyrrole-2-carboxyl-4-aminobutanoyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carboxyl- β -alanyl-4-amino-1-methyl-1H-imidazole-2-carboxyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carboxyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carboxyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)

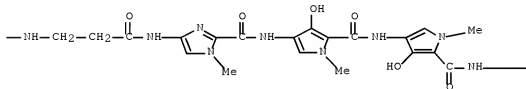
RN 212452-39-6 HCAPLUS

CN 1H-Imidazole-2-carboxamide, N-[3-[[[2-[[[5-[[[5-[[[3-[[3-(dimethylamino)propyl]amino]-3-oxopropyl]amino]carbonyl]-4-hydroxy-1-methyl-1H-pyrrol-3-yl]amino]carbonyl]-4-hydroxy-1-methyl-1H-pyrrol-3-yl]amino]carbonyl]-1-methyl-1H-imidazol-4-yl]amino]-3-oxopropyl]-1-methyl-4-[[4-[[[1-methyl-4-[[[1-methyl-4-[[3-[[[1-methyl-4-[[[1-methyl-1H-pyrrol-2-yl]carbonyl]amino]-1H-pyrrol-2-yl]carbonyl]amino]-1-oxopropyl]amino]-1H-imidazol-2-yl]carbonyl]amino]-1H-pyrrol-2-yl]carbonyl]amino]-1-oxobutyl]amino]- (CA INDEX NAME)

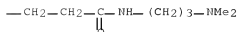
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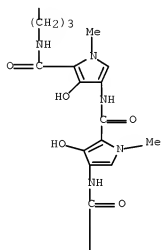
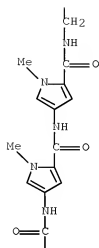


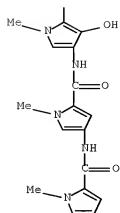
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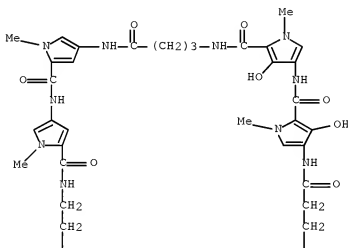


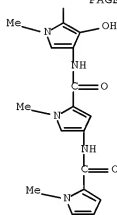
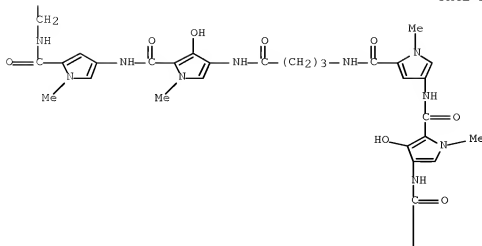




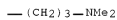
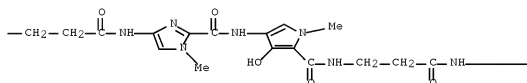
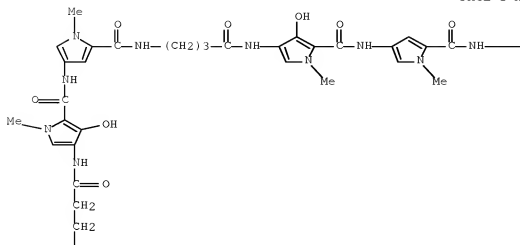
RN 212452-43-2 HCAPLUS

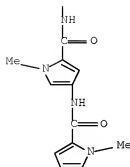
CN β -Alaninamide, 2,3,4,5-tetradecahydro-1-methylpropyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl- β -alanyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl- β -alanyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)





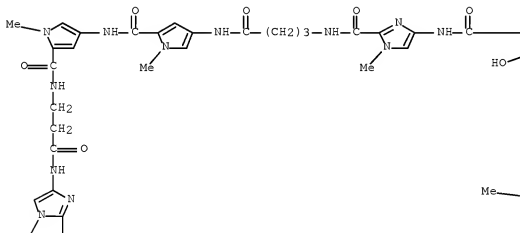
RN 212452-45-4 HCAPLUS
 CN 1H-imidazole-2-carboxamide, N-[5-[[[3-[[3-(dimethylamino)propyl]amino]-3-oxopropyl]amino]carbonyl]-4-hydroxy-1-methyl-1H-pyrrol-3-yl]-4-[[[3-[[[4-[[[3-hydroxy-4-[[[4-[[[4-[[[3-hydroxy-1-methyl-4-[[3-[[[1-methyl-4-[[[1-methyl-1H-pyrrol-2-yl]carbonyl]amino]-1H-pyrrol-2-yl]carbonyl]amino]-1-oxopropyl]amino]-1H-pyrrol-2-yl]carbonyl]amino]-1-methyl-1H-pyrrol-2-yl]carbonyl]amino]-1-oxobutyl]amino]-1-methyl-1H-pyrrol-2-yl]carbonyl]amino]-1-methyl-1H-pyrrol-2-yl]carbonyl]amino]-1-oxopropyl]amino]-1-methyl- (CA INDEX NAME)

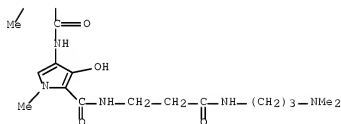
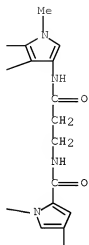




RN 212452-46-5 HCAPLUS

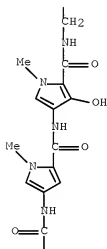
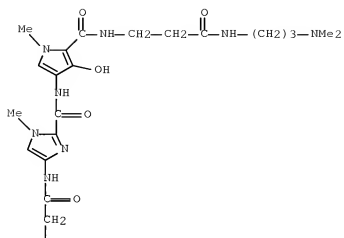
CN β -Alaninamide, 2,3,4,5-tetradehydro-1-methylprolyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl- β -alanyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl- β -alanyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI)
(CA INDEX NAME)

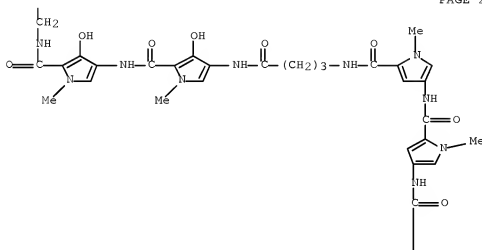
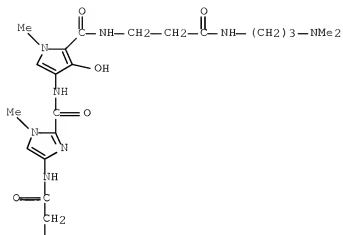




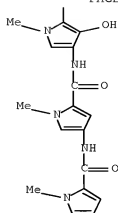
RN 212452-49-8 HCAPLUS

CN 1H-imidazole-2-carboxamide, N-[5-[[[3-[[3-(dimethylamino)propyl]amino]-3-oxopropyl]amino]carbonyl]-4-hydroxy-1-methyl-1H-pyrrol-3-yl]-4-[[[3-[[3-hydroxy-4-[[[4-[[[3-hydroxy-4-[[[4-[[[3-hydroxy-1-methyl-4-[[[1-methyl-4-[[[1-methyl-1H-pyrrol-2-yl]carbonyl]amino]-1H-pyrrol-2-yl]carbonyl]amino]-1-methyl-1H-pyrrol-2-yl]carbonyl]amino]-1-methyl-1H-pyrrol-2-yl]carbonyl]amino]-1-methyl-1H-pyrrol-2-yl]carbonyl]amino]-1-oxobutyl]amino]-1-methyl-1H-pyrrol-2-yl]carbonyl]amino]-1-methyl-1H-pyrrol-2-yl]carbonyl]amino]-1-oxopropyl]amino]-1-methyl- (CA INDEX NAME)





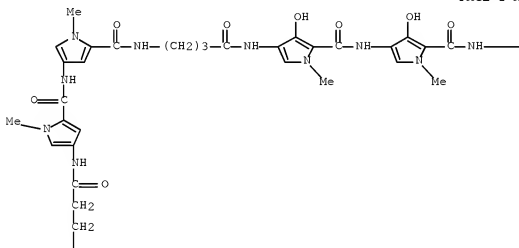
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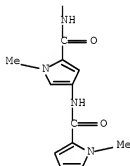
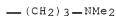
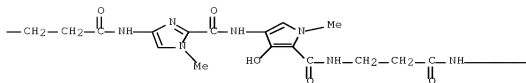


RN 212452-51-2 HCAPLUS

CN β -Alaninamide, 2,3,4,5-tetradehydro-1-methylprolyl-4-amino-1-methyl-1H-pyrrole-2-carboxyl- β -alanyl-4-amino-1-methyl-1H-pyrrole-2-carboxyl-4-amino-1-methyl-1H-pyrrole-2-carboxyl-4-aminobutanoyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carboxyl- β -alanyl-4-amino-1-methyl-1H-imidazole-2-carboxyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carboxyl-N-[3-(dimethylamino)propyl]- (9CI)
(CA INDEX NAME)

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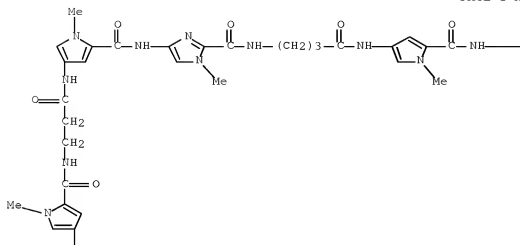




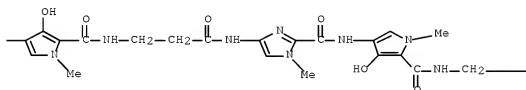
RN 212452-52-3 HCAPLUS

CN β -Alaninamide, 2,3,4,5-tetradehydro-1-methylpropyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl- β -alanyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl- β -alanyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)

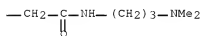
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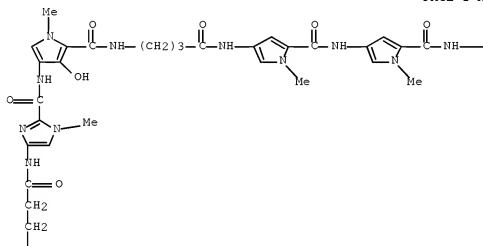
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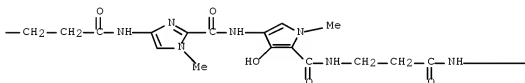
RN 212452-55-6 HCAPLUS

CN β -Alaninamide, 2,3,4,5-tetradehydro-1-methylprolyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl- β -alanyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl- β -alanyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI)
(CA INDEX NAME)

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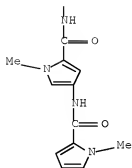
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$\text{---}(\text{CH}_2)_3\text{---NMe}_2$

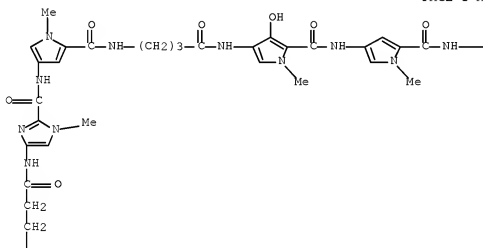
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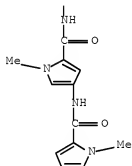
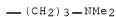
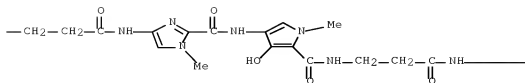


RN 212452-56-7 HCAPLUS

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(CA INDEX NAME)

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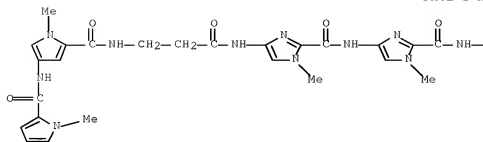




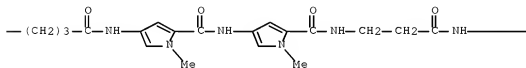
RN 212452-57-8 HCAPLUS

CN 1H-Imidazole-2-carboxamide, N-{4-[[[5-[[[3-[[2-[[[5-[[[3-[[3-(dimethylamino)propyl]amino]-3-oxopropyl]amino]carbonyl]-4-hydroxy-1-methyl-1H-pyrrol-3-yl]amino]carbonyl]-1-methyl-1H-imidazol-4-yl]amino]-3-oxopropyl]amino]carbonyl]-1-methyl-1H-pyrrol-3-yl]amino]carbonyl]-1-methyl-1H-pyrrol-3-yl]amino]-4-oxobutyl]-1-methyl-4-[[[1-methyl-4-[[[1-methyl-4-[[[1-methyl-1H-pyrrol-2-yl]carbonyl]amino]-1H-pyrrol-2-yl]carbonyl]amino]-1-oxopropyl]amino]-1H-imidazol-2-yl]carbonyl]amino]- (CA INDEX NAME)

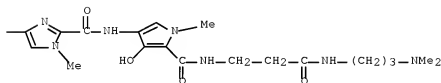
PAGE 1-A



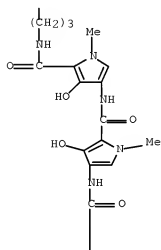
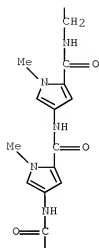
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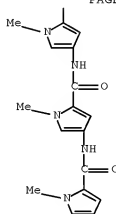
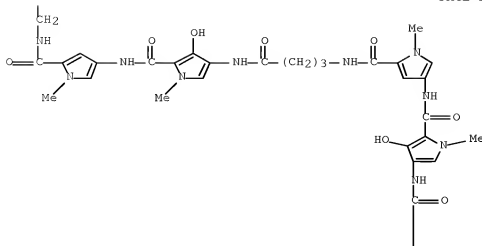


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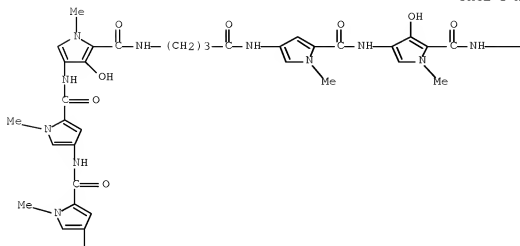
RN 212452-58-9 HCAPLUS
 CN 1H-imidazole-2-carboxamide, N-[5-[[[3-[[2-[[5-[[[3-[[3-(dimethylamino)propyl]amino]-3-oxopropyl]amino]carbonyl]-4-hydroxy-1-methyl-1H-pyrrol-3-yl]amino]carbonyl]-1-methyl-1H-imidazol-4-yl]amino]-3-oxopropyl]amino]carbonyl]-1-methyl-1H-pyrrol-3-yl]-1-methyl-4-[[4-[[[1-methyl-4-[[[1-methyl-4-[[3-[[[1-methyl-4-[[[1-methyl-1H-pyrrol-2-yl]carbonyl]amino]-1H-pyrrol-2-yl]carbonyl]amino]-1-oxopropyl]amino]-1H-imidazol-2-yl]carbonyl]amino]-1H-pyrrol-2-yl]carbonyl]amino]-1-oxobutyl]amino]- (CA INDEX NAME)



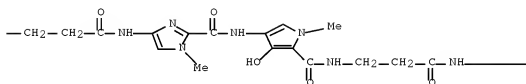


RN 212452-70-5 HCAPLUS
 CN 1H-imidazole-2-carboxamide, N-[5-[[[3-[[3-(dimethylamino)propyl]amino]-3-oxopropyl]amino]carbonyl]-4-hydroxy-1-methyl-1H-pyrrol-3-yl]-4-[[3-[[3-hydroxy-4-[[4-[[4-[[3-hydroxy-1-methyl-4-[[1-methyl-4-[[1-methyl-4-[[1-methyl-4-[[1-methyl-4-[[1-methyl-1H-pyrrol-2-yl]carbonyl]amino]-1H-pyrrol-2-yl]carbonyl]amino]-1H-pyrrol-2-yl]carbonyl]amino]-1H-pyrrol-2-yl]carbonyl]amino]-1H-pyrrol-2-yl]carbonyl]amino]-1-methyl-1H-pyrrol-2-yl]carbonyl]amino]-1-methyl-1H-pyrrol-2-yl]carbonyl]amino]-1-oxobutyl]amino]-1-methyl-1H-pyrrol-2-yl]carbonyl]amino]-1-oxopropyl]amino]-1-methyl- (CA INDEX NAME)

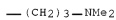
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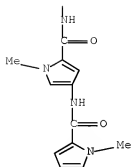


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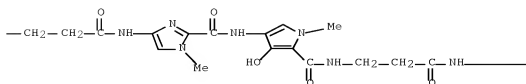
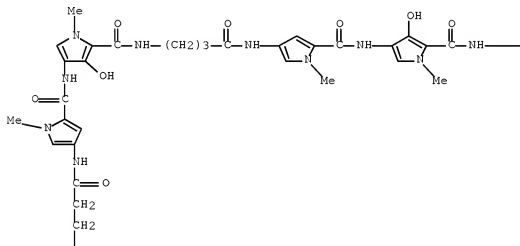
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RN 212452-71-6 HCAPLUS

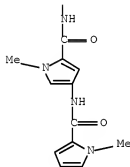
CN β -Alaninamide, 2,3,4,5-tetradehydro-1-methylprolyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl- β -alanyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl- β -alanyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI)
(CA INDEX NAME)



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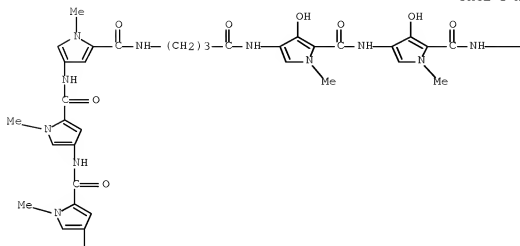
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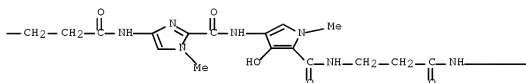
RN 212452-72-7 HCAPLUS

CN 1H-Imidazole-2-carboxamide, N-[5-[[[3-[[3-(dimethylamino)propyl]amino]-3-oxopropyl]amino]carbonyl]-4-hydroxy-1-methyl-1H-pyrrol-3-yl]-4-[[3-[[[3-hydroxy-4-[[[3-hydroxy-1-methyl-4-[[4-[[[1-methyl-4-[[[1-methyl-4-[[[1-methyl-4-[[[1-methyl-4-[[[1-methyl-1H-pyrrol-2-yl]carbonyl]amino]-1H-pyrrol-2-yl]carbonyl]amino]-1H-pyrrol-2-yl]carbonyl]amino]-1H-pyrrol-2-yl]carbonyl]amino]-1H-pyrrol-2-yl]carbonyl]amino]-1H-pyrrol-2-yl]carbonyl]amino]-1-oxobutyl]amino]-1H-pyrrol-2-yl]carbonyl]amino]-1-methyl-1H-pyrrol-2-yl]carbonyl]amino]-1-oxopropyl]amino]-1-methyl- (CA INDEX NAME)

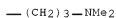
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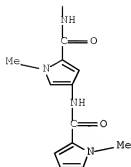


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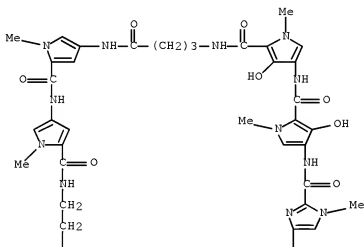
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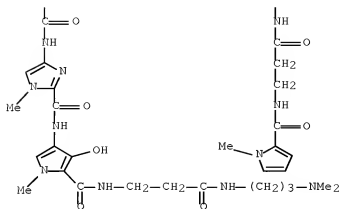




RN 212452-77-2 HCAPLUS

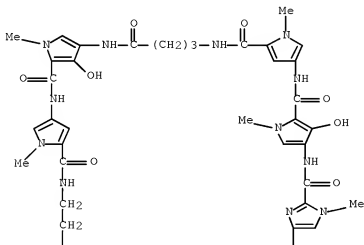
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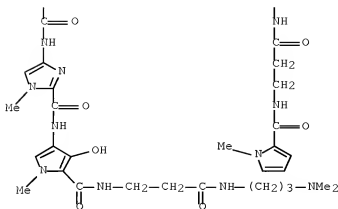




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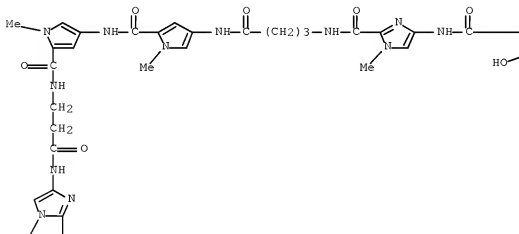
CN β -Alaninamide, 2,3,4,5-tetradehydro-1-methylprolyl- β -alanyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl- β -alanyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)



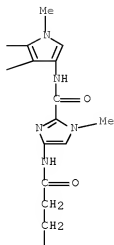


RN 212452-79-4 HCAPLUS

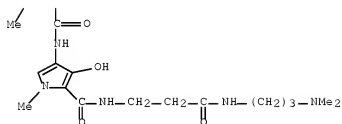
CN β -Alaninamide, 2,3,4,5-tetradehydro-1-methylprolyl- β -alanyl-4-amino-1-methyl-1H-imidazole-2-carboxyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carboxyl-4-amino-1-methyl-1H-imidazole-2-carboxyl-4-aminobutanoyl-4-amino-1-methyl-1H-pyrrole-2-carboxyl-4-amino-1-methyl-1H-pyrrole-2-carboxyl- β -alanyl-4-amino-1-methyl-1H-imidazole-2-carboxyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carboxyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)



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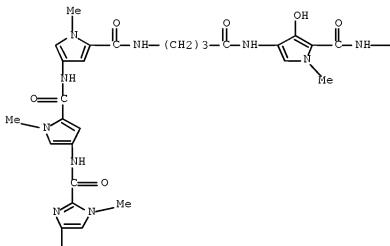
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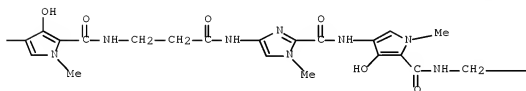
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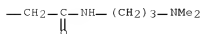
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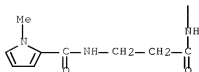
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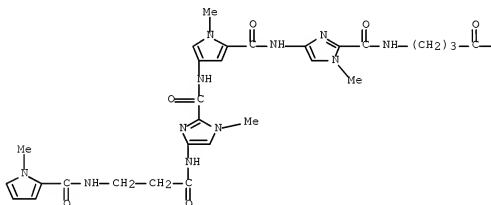
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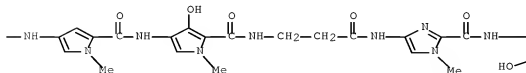
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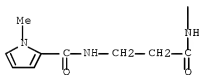
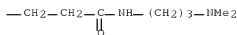
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(CA INDEX NAME)

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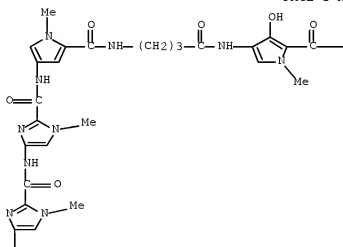
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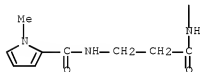
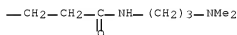
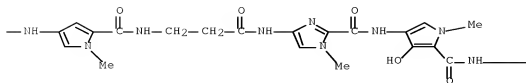




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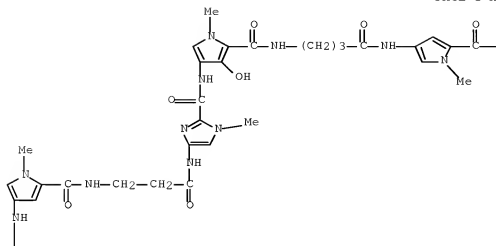
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(CA INDEX NAME)



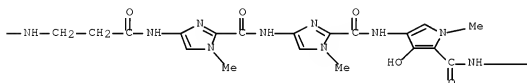


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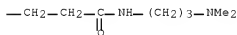
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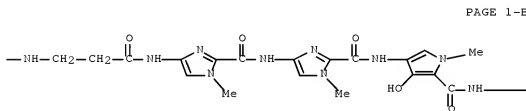
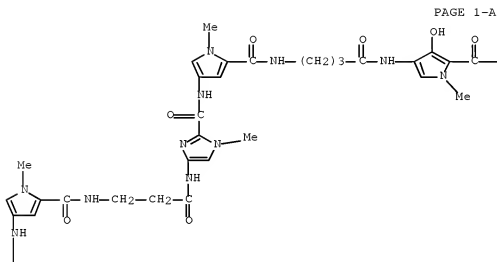


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RN 212453-01-5 HCAPLUS

CN 1H-Imidazole-2-carboxamide, N-[2-[[[5-[[[3-[[3-(dimethylamino)propyl]amino]-3-oxopropyl]amino]carbonyl]-4-hydroxy-1-methyl-1H-pyrrol-3-yl]amino]carbonyl]-1-methyl-1H-imidazol-4-yl]-4-[[[3-[[[3-hydroxy-1-methyl-4-[[4-[[[1-methyl-4-[[[1-methyl-4-[[3-[[[1-methyl-4-[[[1-methyl-1H-pyrrol-2-yl]carbonyl]amino]-1H-pyrrol-2-yl]carbonyl]amino]-1-oxopropyl]amino]-1H-imidazol-2-yl]carbonyl]amino]-1H-pyrrol-2-yl]carbonyl]amino]-1-oxobutyl]amino]-1H-pyrrol-2-yl]carbonyl]amino]-1-oxopropyl]amino]-1-methyl- (CA INDEX NAME)



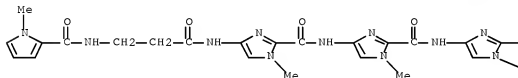
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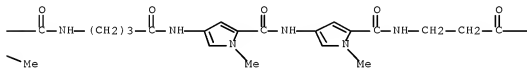
RN 212453-02-6 HCAPLUS

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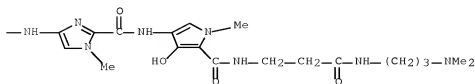
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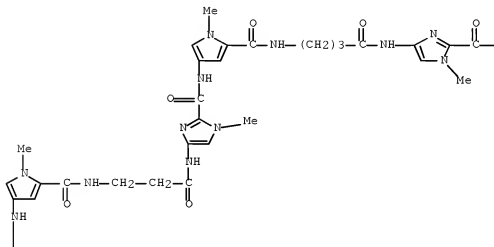
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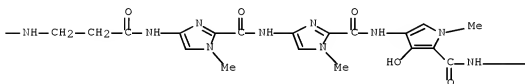
RN 212453-07-1 HCAPLUS

CN β -Alaninamide, 2,3,4,5-tetradehydro-1-methylprolyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl- β -alanyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-imidazole-2-carbonyl- β -alanyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)

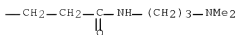
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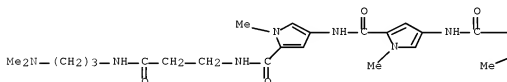
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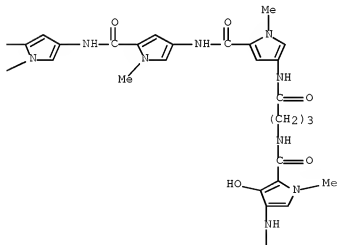
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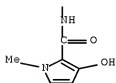
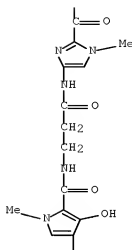
CN 1H-Imidazole-2-carboxamide, N-[5-[[[4-[[5-[[[5-[[[5-[[[5-[[[3-[[3-(dimethylamino)propyl]amino]-3-oxopropyl]amino]carbonyl]-1-methyl-1H-pyrrol-3-yl]amino]carbonyl]-1-methyl-1H-pyrrol-3-yl]amino]carbonyl]-1-methyl-1H-pyrrol-3-yl]amino]carbonyl]-1-methyl-1H-pyrrol-3-yl]amino]carbonyl]-1-methyl-1H-pyrrol-3-yl]amino]-4-oxobutyl]amino]carbonyl]-4-hydroxy-1-methyl-1H-pyrrol-3-yl]-4-[[3-[[[3-hydroxy-4-[[3-hydroxy-1-methyl-1H-pyrrol-2-yl]carbonyl]amino]-1-methyl-1H-pyrrol-2-yl]carbonyl]amino]-1-oxopropyl]amino]-1-methyl- (CA INDEX NAME)

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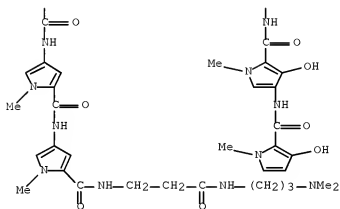
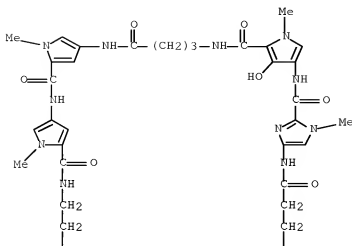
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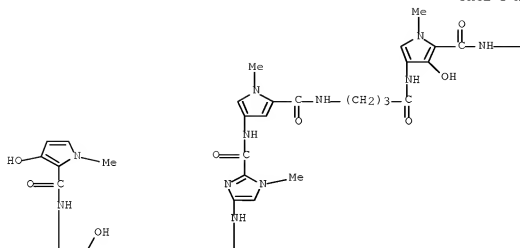
RN 212453-72-0 HCAPLUS

CN β -Alaninamide, 2,3,4,5-tetradehydro-3-hydroxy-1-methylprolyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl- β -alanyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl- β -alanyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI)
(CA INDEX NAME)

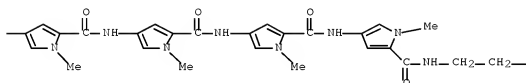


RN 212453-73-1 HCAPLUS
 CN 1H-Imidazole-2-carboxamide, N-[5-[[[4-[[[5-[[[5-[[[5-[[[5-[[[3-[[[3-(dimethylamino)propyl]amino]-3-oxopropyl]amino]carbonyl]-1-methyl-1H-pyrrol-3-yl]amino]carbonyl]-1-methyl-1H-pyrrol-3-yl]amino]carbonyl]-1-methyl-1H-pyrrol-3-yl]amino]carbonyl]-1-methyl-1H-pyrrol-3-yl]amino]carbonyl]-4-hydroxy-1-methyl-1H-pyrrol-3-yl]amino]-4-oxobutyl]amino]carbonyl]-1-methyl-1H-pyrrol-3-yl]-4-[[[3-[[[3-hydroxy-4-[[[3-hydroxy-1-methyl-1H-pyrrol-2-yl]carbonyl]amino]-1-methyl-1H-pyrrol-2-yl]carbonyl]amino]-1-oxopropyl]amino]-1-methyl- (CA INDEX NAME)

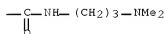
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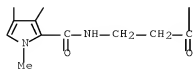
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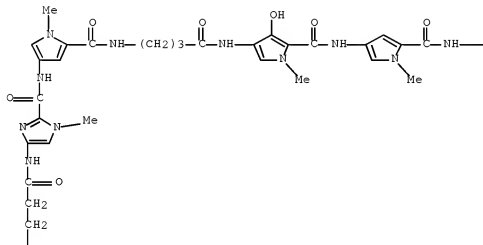
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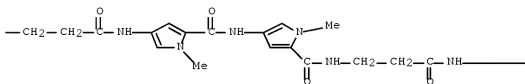
RN 212453-74-2 HCAPLUS

CN 1H-Imidazole-2-carboxamide, N-[5-[[[4-[[5-[[[3-[[5-[[[3-[[[3-[[3-(dimethylamino)propyl]amino]-3-oxopropyl]amino]carbonyl]-1-methyl-1H-pyrrol-3-yl]amino]carbonyl]-1-methyl-1H-pyrrol-3-yl]amino]-3-oxopropyl]amino]carbonyl]-1-methyl-1H-pyrrol-3-yl]amino]carbonyl]-4-hydroxy-1-methyl-1H-pyrrol-3-yl]amino]-4-oxobutyl]amino]carbonyl]-1-methyl-1H-pyrrol-3-yl]-4-[[3-[[[3-hydroxy-4-[[[3-hydroxy-1-methyl-1H-pyrrol-2-yl]carbonyl]amino]-1-methyl-1H-pyrrol-2-yl]carbonyl]amino]-1-oxopropyl]amino]-1-methyl- (CA INDEX NAME)

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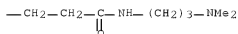
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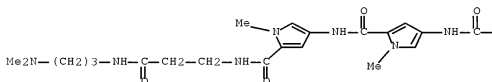
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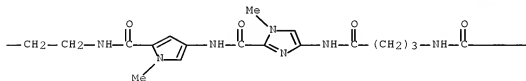
RN 212453-78-6 HCAPLUS

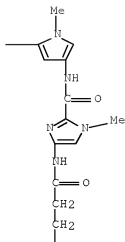
CN β -Alaninamide, 2,3,4,5-tetradehydro-3-hydroxy-1-methylprolyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl- β -alanyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl- β -alanyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI)
(CA INDEX NAME)

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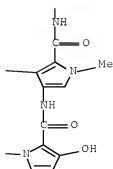
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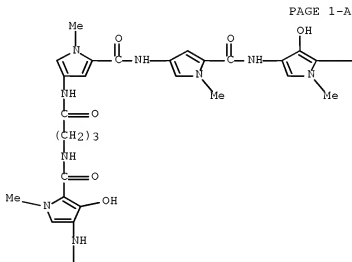


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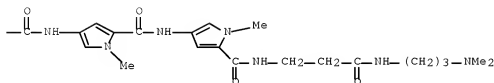
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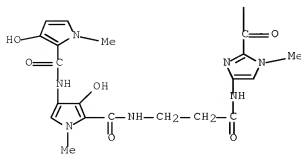
CN 1H-Imidazole-2-carboxamide, N-[5-[[[4-[[5-[[[5-[[[5-[[[5-[[[3-[[3-
(dimethylamino)propyl]amino]-3-oxopropyl]amino]carbonyl]-1-methyl-1H-
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hydroxy-1-methyl-1H-pyrrol-3-yl]amino]carbonyl]-1-methyl-1H-pyrrol-3-
yl]amino]carbonyl]-1-methyl-1H-pyrrol-3-yl]amino]-4-
oxobutyl]amino]carbonyl]-4-hydroxy-1-methyl-1H-pyrrol-3-yl]-4-[[3-[[[3-
hydroxy-4-[[[3-hydroxy-1-methyl-1H-pyrrol-2-yl]carbonyl]amino]-1-methyl-1H-
pyrrol-2-yl]carbonyl]amino]-1-oxopropyl]amino]-1-methyl- (CA INDEX NAME)



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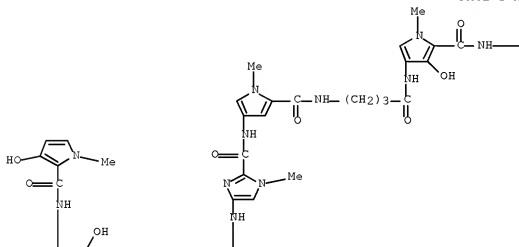
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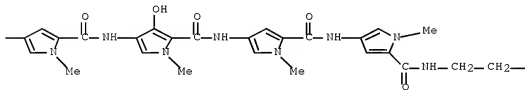
RN 212453-84-4 HCAPLUS

CN 1H-imidazole-2-carboxamide, N-[5-[[[4-[[5-[[[5-[[[5-[[[5-[[[3-[[3-(dimethylamino)propyl]amino]-3-oxopropyl]amino]carbonyl]-1-methyl-1H-pyrrol-3-yl]amino]carbonyl]-1-methyl-1H-pyrrol-3-yl]amino]carbonyl]-4-hydroxy-1-methyl-1H-pyrrol-3-yl]amino]carbonyl]-1-methyl-1H-pyrrol-3-yl]amino]carbonyl]-4-hydroxy-1-methyl-1H-pyrrol-3-yl]amino]-4-oxobutyl]amino]carbonyl]-1-methyl-1H-pyrrol-3-yl]-4-[[[3-[[[3-hydroxy-4-[[[3-hydroxy-1-methyl-1H-pyrrol-2-yl]carbonyl]amino]-1-methyl-1H-pyrrol-2-yl]carbonyl]amino]-1-oxopropyl]amino]-1-methyl- (CA INDEX NAME)

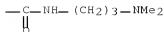
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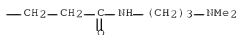


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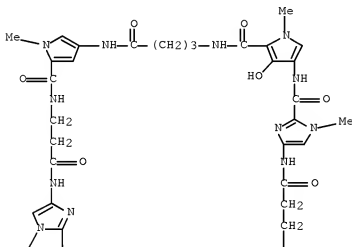


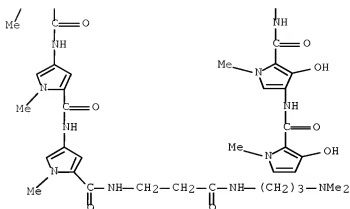


RN 212454-35-8 HCAPLUS

CN β -Alaninamide, 2,3,4,5-tetradehydro-3-hydroxy-1-methylprolyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl- β -alanyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl- β -alanyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI)
(CA INDEX NAME)

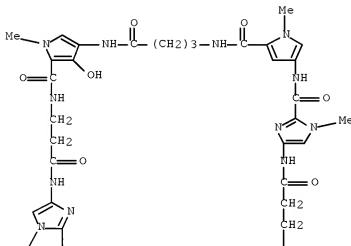
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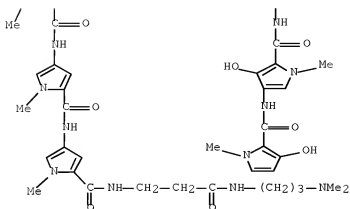




RN 212454-36-9 HCAPLUS

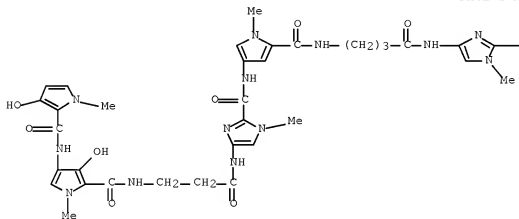
CN β -Alaninamide, 2,3,4,5-tetradehydro-3-hydroxy-1-methylprolyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl- β -alaninyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl- β -alaninyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)



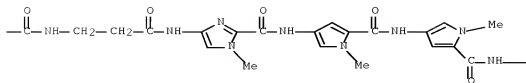


RN 212454-42-7 HCAPLUS

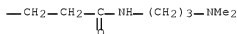
CN β -Alaninamide, 2,3,4,5-tetradehydro-3-hydroxy-1-methylprolyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl- β -alanyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-imidazole-2-carbonyl- β -alanyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)



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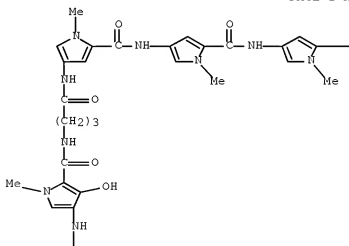
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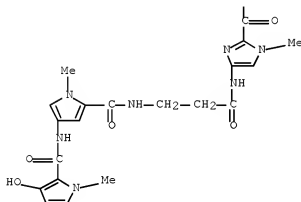
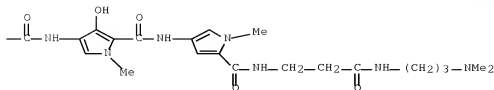


RN 212454-48-3 HCAPLUS

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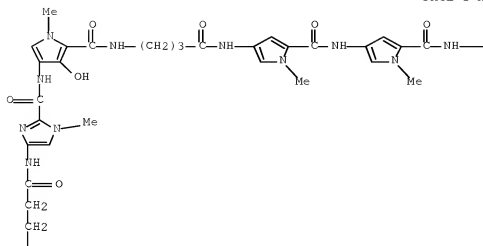




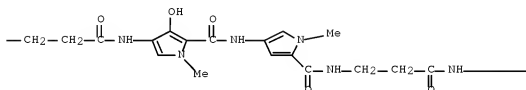
RN 212454-49-4 HCAPLUS

CN β -Alaninamide, 2,3,4,5-tetradehydro-3-hydroxy-1-methylprolyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl- β -alanyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl- β -alanyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)

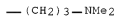
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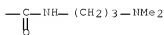
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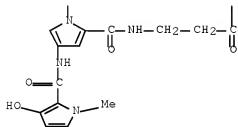
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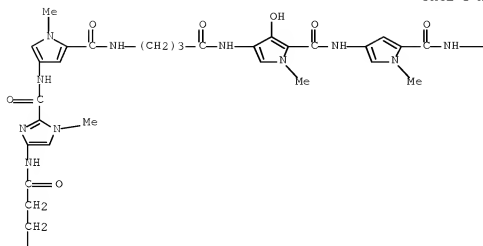
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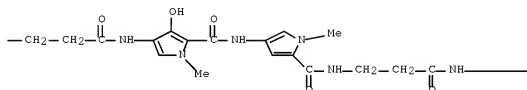
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(CA INDEX NAME)

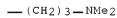
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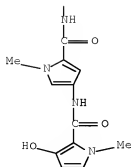


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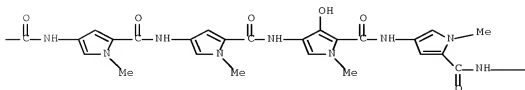
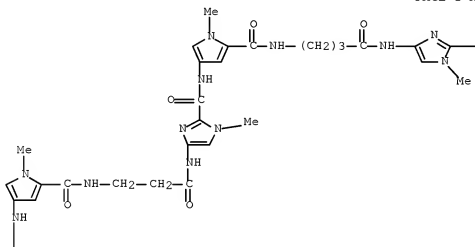
PAGE 1-C



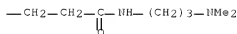


RN 212454-54-1 HCAPLUS

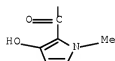
CN β -Alaninamide, 2,3,4,5-tetradehydro-3-hydroxy-1-methylprolyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl- β -alanyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)



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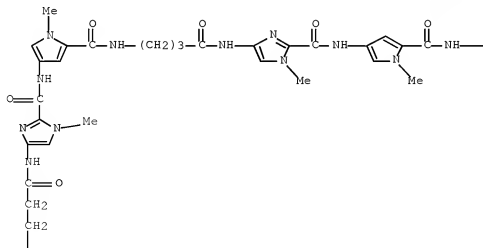
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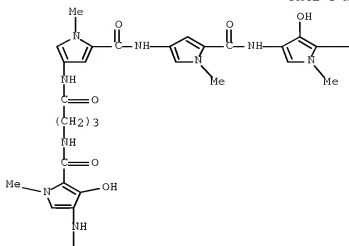
RN 212454-55-2 HCAPLUS

CN β -Alaninamide, 2,3,4,5-tetradehydro-3-hydroxy-1-methylprolyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl- β -alanyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl- β -alanyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)

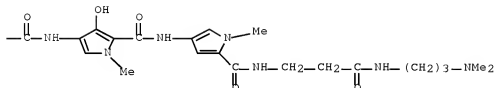
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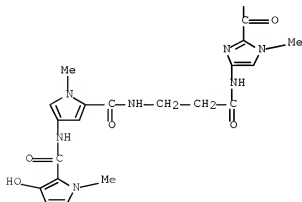
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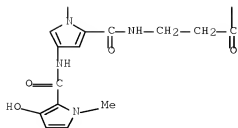
RN 212454-61-0 HCAPLUS

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CN1C=CC(=C1)C(=O)NC2=C(O)C=CC2C(=O)NC3=C(O)C=CC3C(=O)NC4=CC=C(C=C4)C(C)(C)NCC
$$\text{—C—NH—(CH}_2\text{)}_3\text{—NMe}_2$$

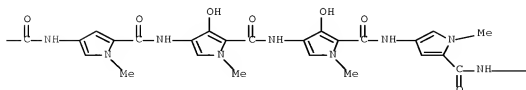
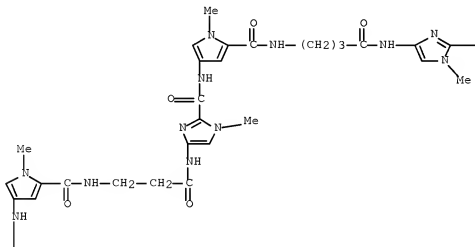
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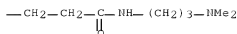


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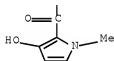
CN β -Alaninamide, 2,3,4,5-tetradehydro-3-hydroxy-1-methylprolyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl- β -alanyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)



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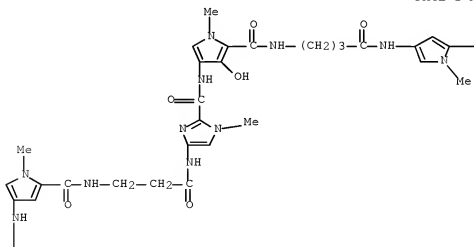
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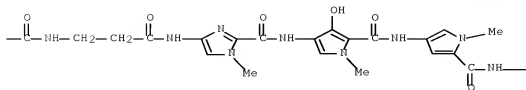
RN 212454-93-8 HCAPLUS

CN β -Alaninamide, 2,3,4,5-tetradehydro-3-hydroxy-1-methylprolyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl- β -alanyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl- β -alanyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)

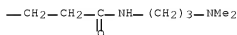
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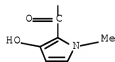
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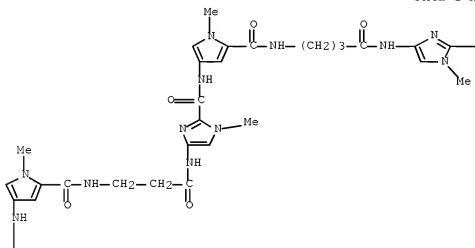
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(CA INDEX NAME)

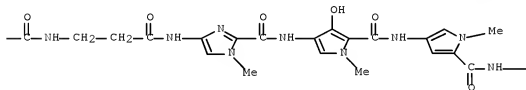
RN 212454-98-3 HCAPLUS

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(CA INDEX NAME)

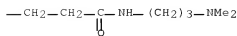
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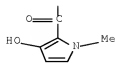
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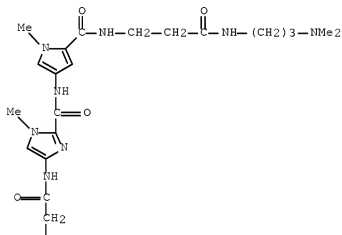
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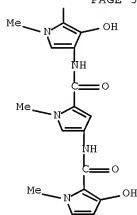
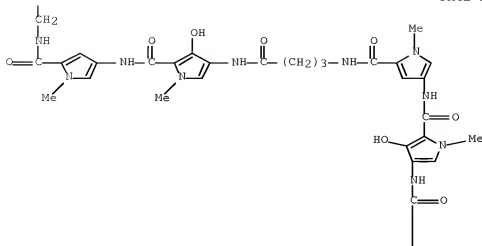


RN 212455-00-0 HCAPLUS

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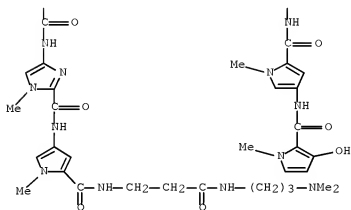
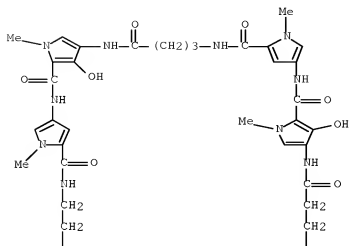
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RN 212455-01-1 HCAPLUS

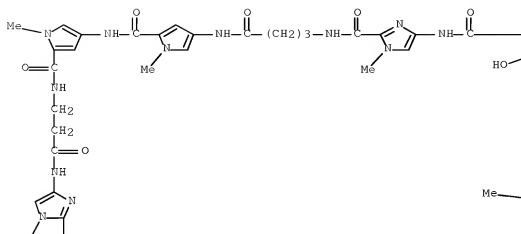
CN β -Alaninamide, 2,3,4,5-tetradehydro-3-hydroxy-1-methylprolyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl- β -alanyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI)
(CA INDEX NAME)



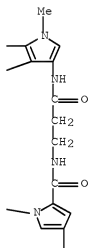
RN 212455-02-2 HCAPLUS

CN β -Alaninamide, 2,3,4,5-tetradehydro-3-hydroxy-1-methylpropyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl- β -alanyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl- β -alanyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI)
(CA INDEX NAME)

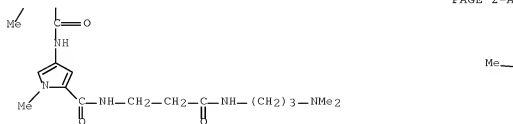
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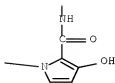


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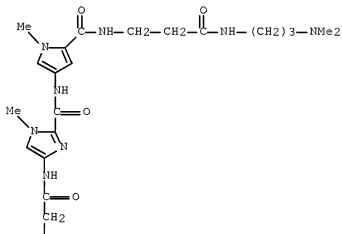


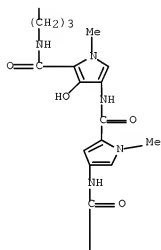
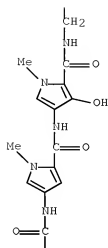
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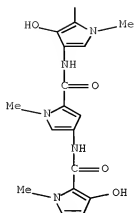
RN 212455-05-5 HCAPLUS

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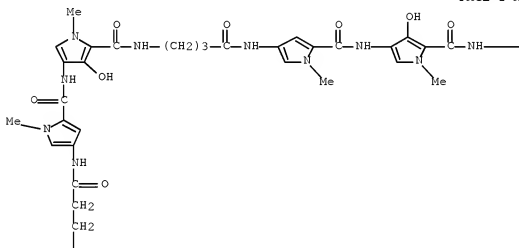


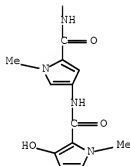
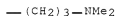
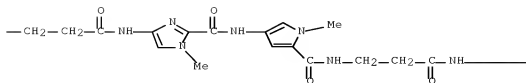




RN 212455-06-6 HCAPLUS

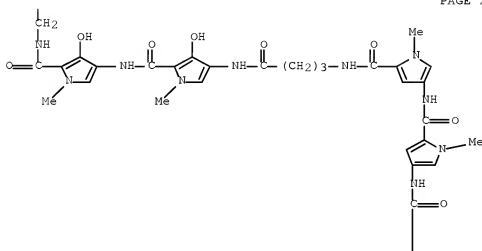
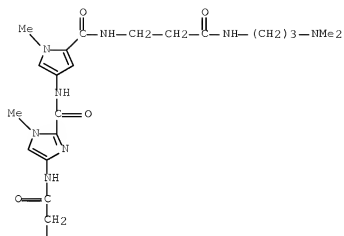
CN β -Alaninamide, 2,3,4,5-tetradehydro-3-hydroxy-1-methylprolyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl- β -alanyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl- β -alanyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI)
(CA INDEX NAME)



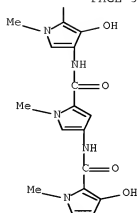


RN 212455-07-7 HCAPLUS

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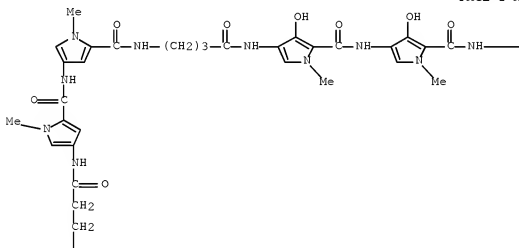
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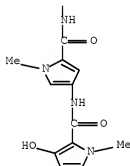
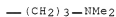
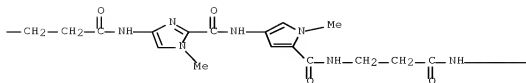


RN 212455-08-8 HCAPLUS

CN β -Alaninamide, 2,3,4,5-tetradecahydro-3-hydroxy-1-methylprolyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl- β -alanyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl- β -alanyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI)
(CA INDEX NAME)

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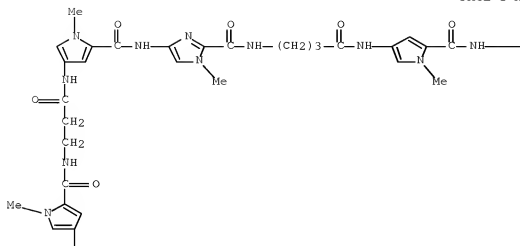




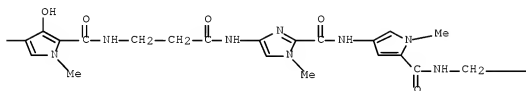
RN 212455-09-9 HCAPLUS

CN β -Alaninamide, 2,3,4,5-tetradehydro-3-hydroxy-1-methylprolyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl- β -alanyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl- β -alanyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)

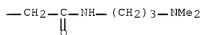
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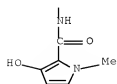
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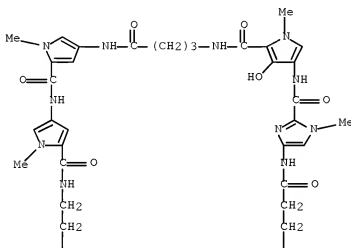
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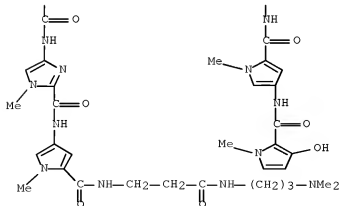
RN 212455-12-4 HCAPLUS

CN β -Alaninamide, 2,3,4,5-tetradehydro-3-hydroxy-1-methylprolyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl- β -alanyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl- β -alanyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI)
(CA INDEX NAME)

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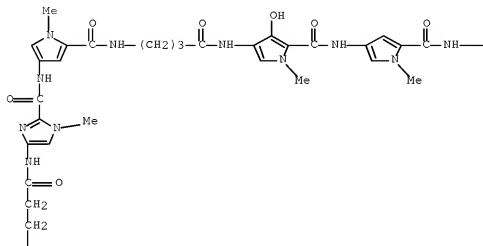


RN 212455-13-5 HCAPLUS

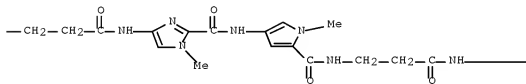
CN β -Alaninamide, 2,3,4,5-tetradehydro-3-hydroxy-1-methylprolyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl- β -alanyl-4-amino-1-methyl-1H-imidazole-

2-carboxyl-4-amino-1-methyl-1H-pyrrole-2-carboxyl-4-aminobutanoyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carboxyl-4-amino-1-methyl-1H-pyrrole-2-carboxyl-β-alanyl-4-amino-1-methyl-1H-imidazole-2-carboxyl-4-amino-1-methyl-1H-pyrrole-2-carboxyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)

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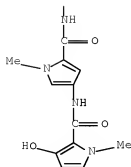


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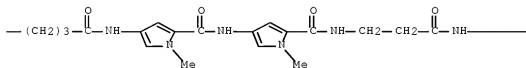
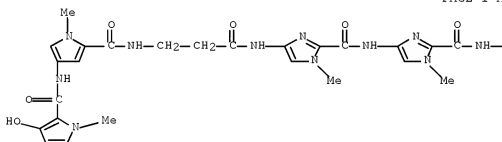
PAGE 1-C

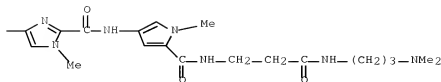
— (CH₂)₃—NMe₂



RN 212455-14-6 HCAPLUS

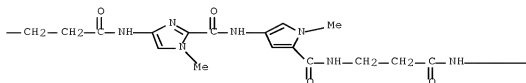
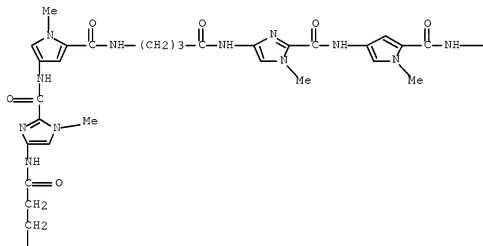
CN β -Alaninamide, 2,3,4,5-tetradehydro-3-hydroxy-1-methylprolyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl- β -alanyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl- β -alanyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)



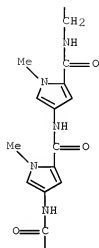


RN 212455-15-7 HCAPLUS

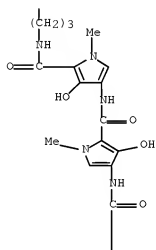
CN β -Alaninamide, 2,3,4,5-tetradecahydro-3-hydroxy-1-methylprolyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl- β -alanyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl- β -alanyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)

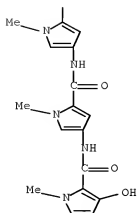


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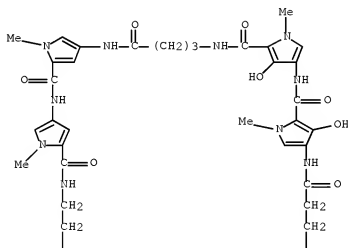
PAGE 3-A

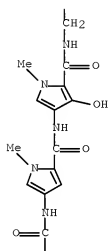
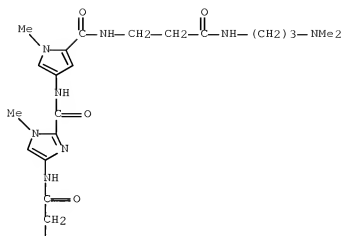


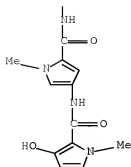


RN 212455-24-8 HCAPLUS

CN β -Alaninamide, 2,3,4,5-tetradecahydro-3-hydroxy-1-methylprolyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl- β -alanyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl- β -alanyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI)
(CA INDEX NAME)

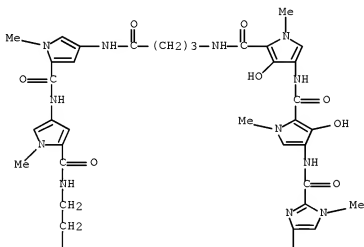


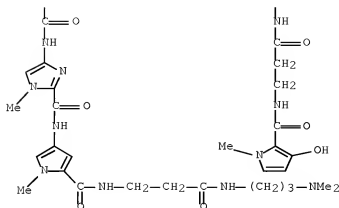




RN 212455-33-9 HCAPLUS

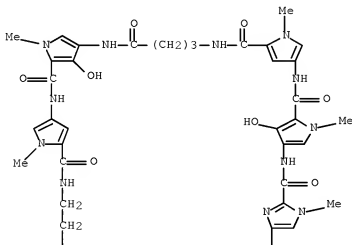
CN β -Alaninamide, 2,3,4,5-tetradehydro-3-hydroxy-1-methylprolyl- β -alanyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl- β -alanyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI)
(CA INDEX NAME)



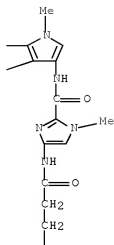


RN 212455-34-0 HCAPLUS

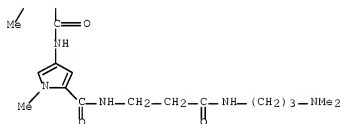
CN β-Alaninamide, 2,3,4,5-tetradehydro-3-hydroxy-1-methylprolyl-β-alanyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-β-alanyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)



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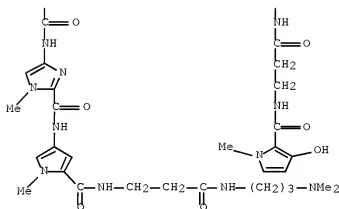
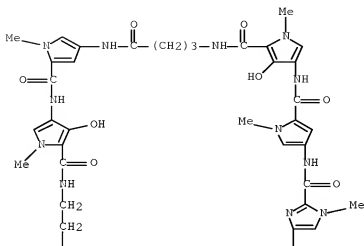


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RN 212455-37-3 HCAPLUS

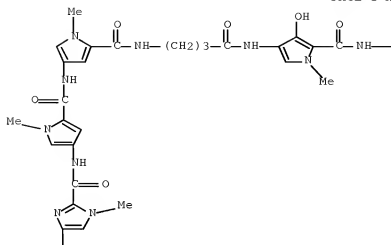
CN β -Alaninamide, 2,3,4,5-tetrahydro-3-hydroxy-1-methylpropyl- β -alanyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl- β -alanyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)



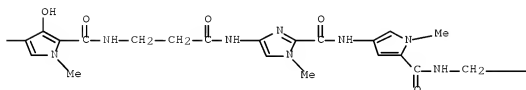
RN 212455-38-4 HCAPLUS

CN β -Alaninamide, 2,3,4,5-tetradehydro-3-hydroxy-1-methylprolyl- β -alanyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl- β -alanyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)

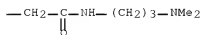
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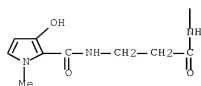
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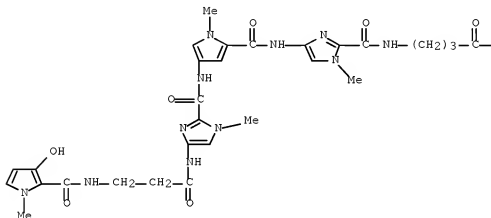
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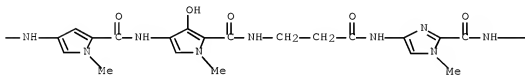
RN 212455-39-5 HCAPLUS

CN β -Alaninamide, 2,3,4,5-tetradehydro-3-hydroxy-1-methylprolyl- β -alanyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl- β -alanyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)

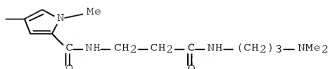
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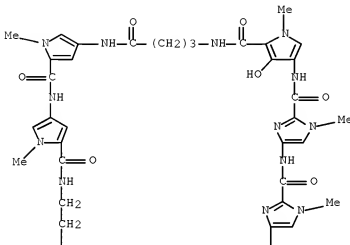
PAGE 1-C



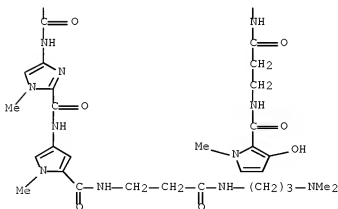
RN 212455-41-9 HCAPLUS

CN β -Alaninamide, 2,3,4,5-tetradehydro-3-hydroxy-1-methylprolyl- β -alanyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl- β -alanyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI)
(CA INDEX NAME)

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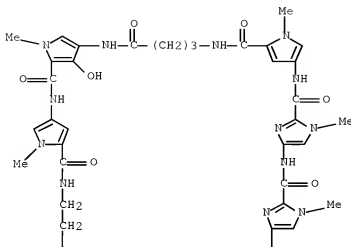


RN 212455-42-0 HCAPLUS

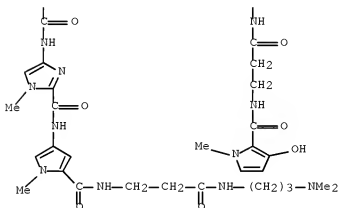
CN 1H-imidazole-2-carboxamide, N-[5-[[[4-[15-[[[3-[[2-[[[5-[[[3-[[3-(dimethylamino)propyl]amino]-3-oxopropyl]amino]carbonyl]-1-methyl-1H-pyrrol-3-yl]amino]carbonyl]-1-methyl-1H-imidazol-4-yl]amino]-3-oxopropyl]amino]carbonyl]-1-methyl-1H-pyrrol-3-yl]amino]carbonyl]-4-hydroxy-1-methyl-1H-pyrrol-3-yl]amino]-4-oxobutyl]amino]carbonyl]-1-methyl-1H-pyrrol-3-yl]-4-[[[4-[[3-[[[3-hydroxy-1-methyl-1H-pyrrol-2-

yl)carbonyl]amino]-1-oxopropyl]amino]-1-methyl-1H-imidazol-2-yl]carbonyl]amino]-1-methyl- (CA INDEX NAME)

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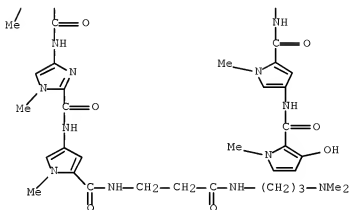
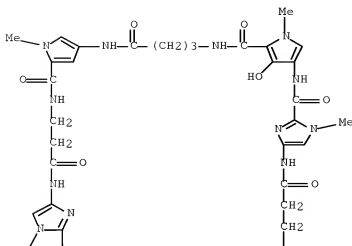


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RN 212455-60-2 HCAPLUS

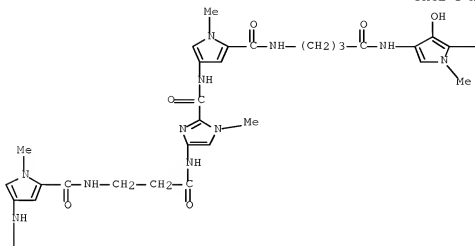
CN 1H-Imidazole-2-carboxamide, N-[2-[[[5-[[[3-[[3-(dimethylamino)propyl]amino]-3-oxopropyl]amino]carbonyl]-1-methyl-1H-pyrrol-3-yl]amino]carbonyl]-1-methyl-1H-imidazol-4-yl]-4-[[[3-[[[4-[[[3-hydroxy-4-[[[4-[[[3-[[[3-(3-hydroxy-1-methyl-1H-pyrrol-2-yl)carbonyl]amino]-1-methyl-1H-pyrrol-2-yl]carbonyl]amino]-1-oxopropyl]amino]-1-methyl-1H-imidazol-2-yl]carbonyl]amino]-1-methyl-1H-pyrrol-2-yl]carbonyl]amino]-1-oxobutyl]amino]-1-methyl-1H-pyrrol-2-yl]carbonyl]amino]-1-oxopropyl]amino]-1-methyl- (CA INDEX NAME)



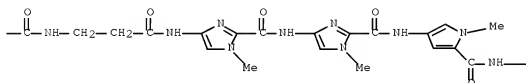
RN 212455-61-3 HCAPLUS

CN β -Alaninamide, 2,3,4,5-tetradehydro-3-hydroxy-1-methylprolyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl- β -alanyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl- β -alanyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)

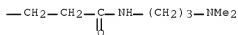
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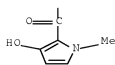
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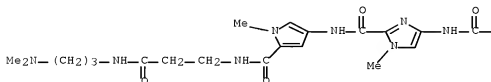
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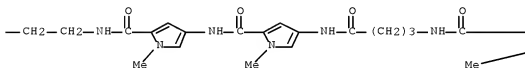
RN 212455-62-4 HCAPLUS

CN β -Alaninamide, 2,3,4,5-tetradehydro-3-hydroxy-1-methylprolyl- β -alanyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl- β -alanyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI)
(CA INDEX NAME)

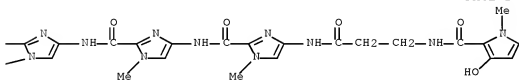
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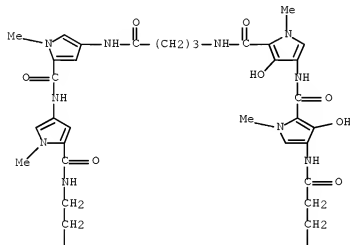
RN 212455-67-9 HCAPLUS

CN β -Alaninamide, 2,3,4,5-tetradehydro-3-hydroxy-1-methylprolyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl- β -alanyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-imidazole-2-carbonyl- β -alanyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI)
(CA INDEX NAME)

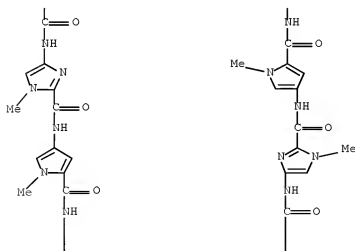
RN 212482-74-1 HCAPLUS

CN β -Alaninamide, 1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl- β -alanyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl- β -alanyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI)
(CA INDEX NAME)

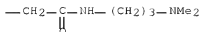
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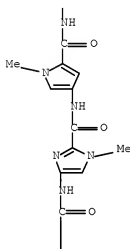
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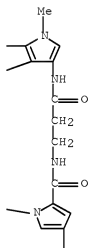
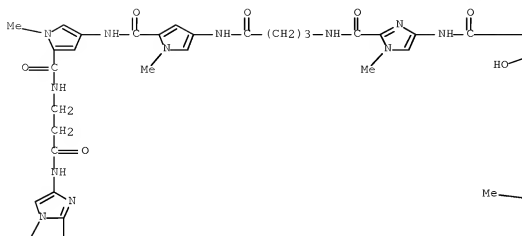


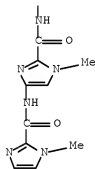
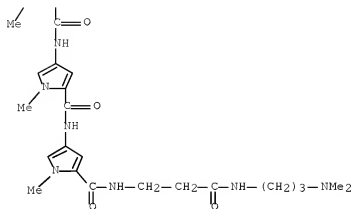
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RN 212482-76-3 HCAPLUS

CN β -Alaninamide, 1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl- β -alanyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl- β -alanyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI)
(CA INDEX NAME)

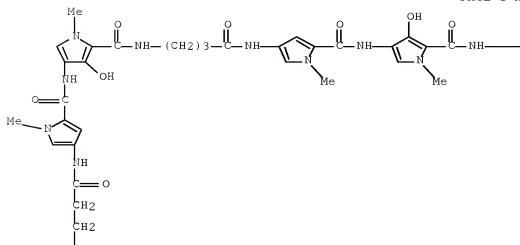




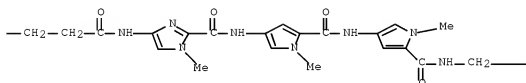
RN 212482-78-5 HCAPLUS

CN β -Alaninamide, 1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl- β -alanyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl- β -alanyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI)
(CA INDEX NAME)

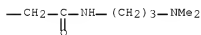
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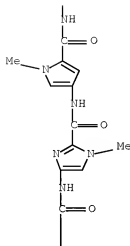


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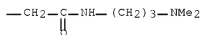
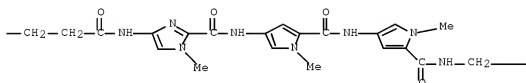
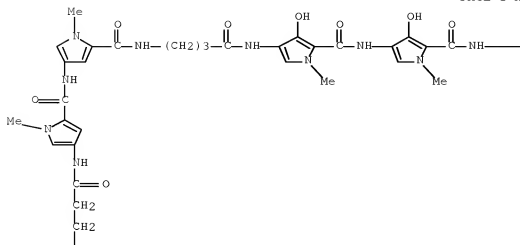
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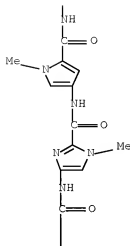




RN 212482-79-6 HCAPLUS

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(CA INDEX NAME)

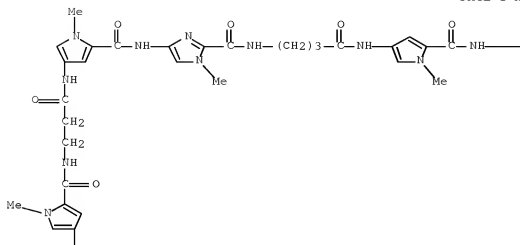




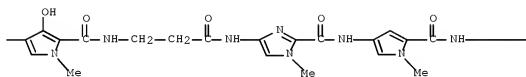
RN 212482-80-9 HCAPLUS

CN β -Alaninamide, 1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl- β -alanyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl- β -alanyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)

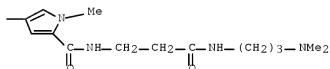
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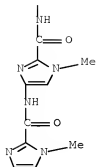


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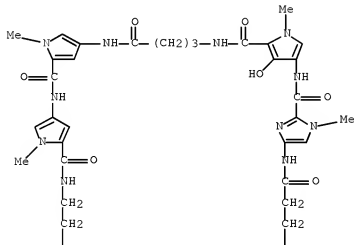
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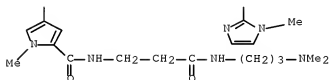
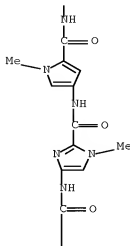
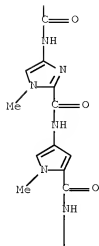




RN 212482-82-1 HCAPLUS

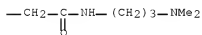
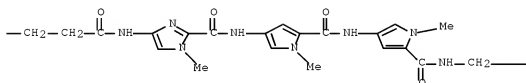
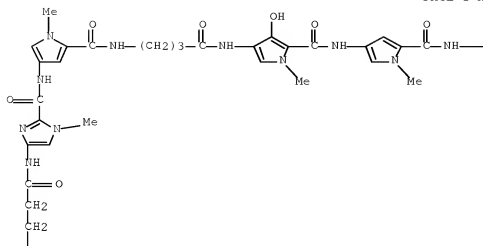
CN β-Alaninamide, 1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-β-alanyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-β-alanyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)

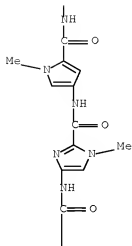




RN 212482-83-2 HCAPLUS

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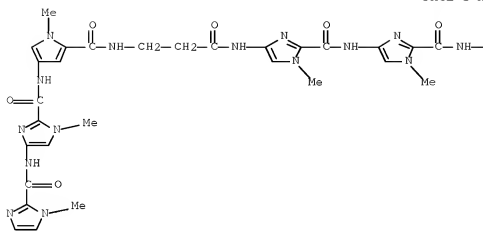




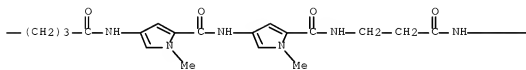
RN 212482-84-3 HCAPLUS

CN β -Alaninamide, 1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl- β -alanyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl- β -alanyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)

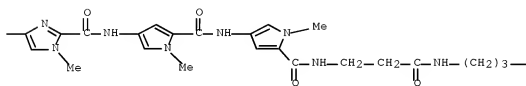
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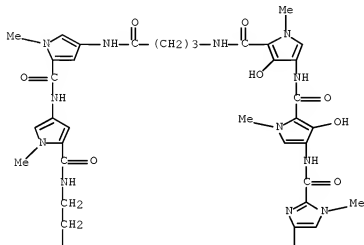
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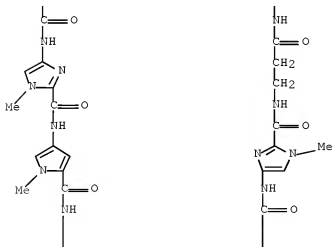
RN 212482-92-3 HCAPLUS

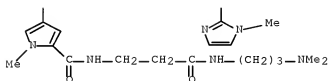
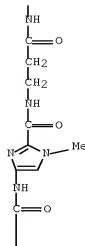
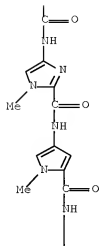
CN β -Alaninamide, 1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl- β -alanyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl- β -alanyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)

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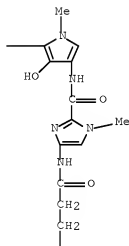
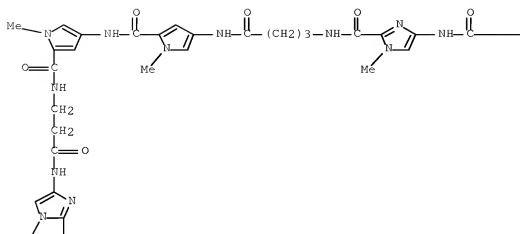
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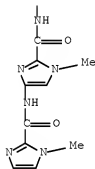
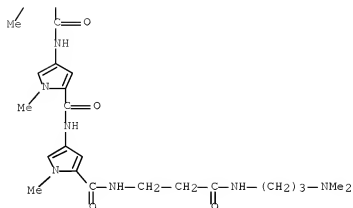




RN 212482-94-5 HCAPLUS

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(CA INDEX NAME)

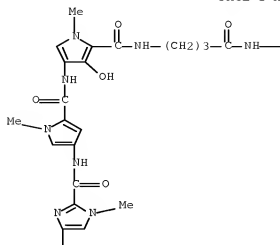




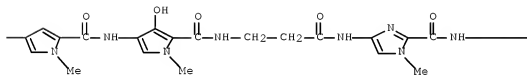
RN 212482-96-7 HCAPLUS

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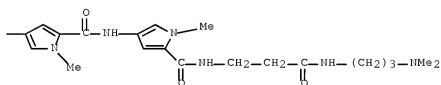
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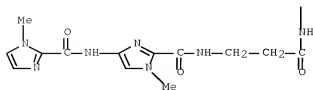
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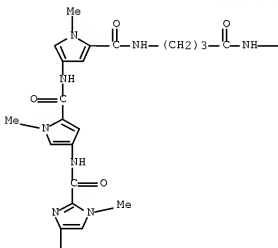
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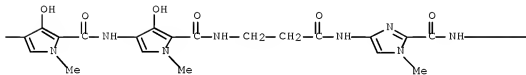
RN 212482-97-8 HCAPLUS

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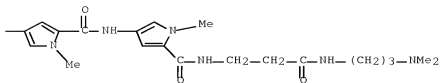
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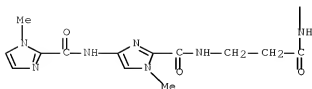
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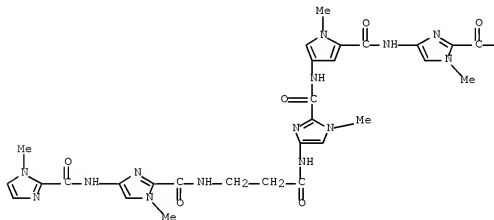
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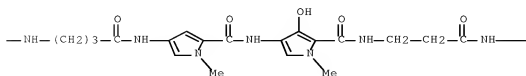
RN 212482-98-9 HCAPLUS

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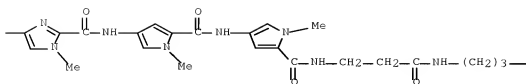
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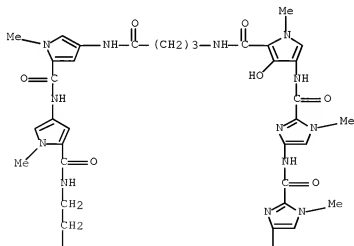
PAGE 1-D

—NMe₂

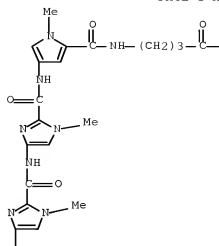
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(CA INDEX NAME)

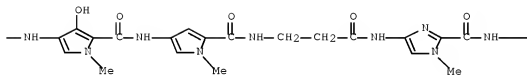
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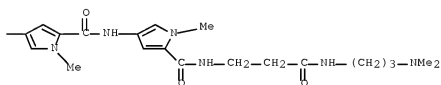
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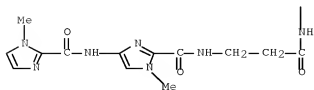
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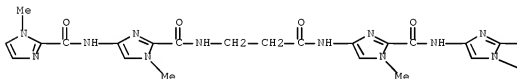
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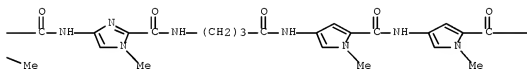
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(CA INDEX NAME)

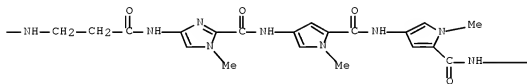
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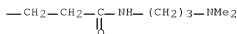
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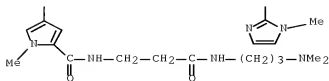
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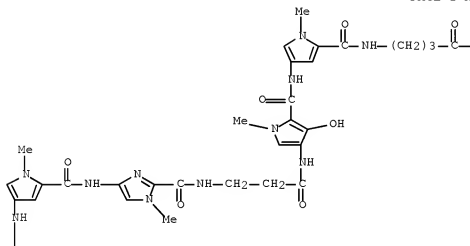
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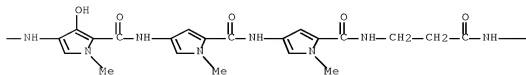
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(CA INDEX NAME)

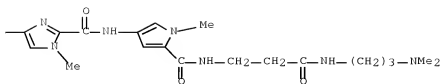
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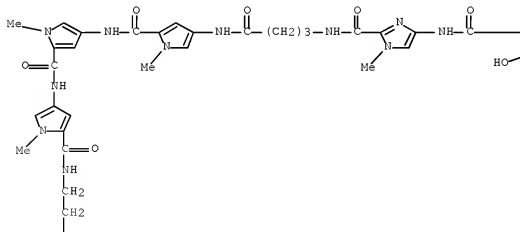
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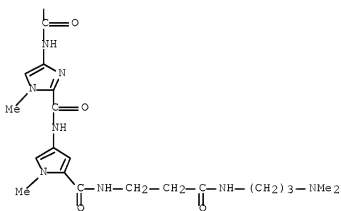
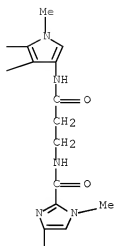


RN 212483-27-7 HCAPLUS

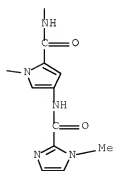
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(CA INDEX NAME)

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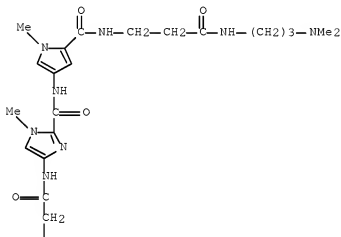
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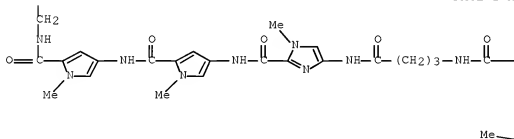
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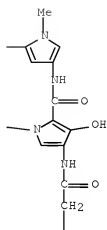
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(CA INDEX NAME)

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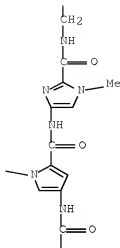
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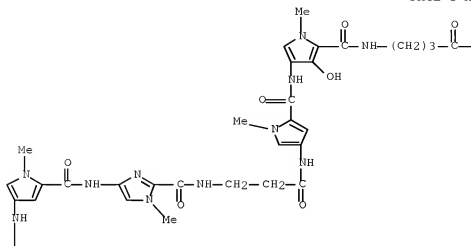
PAGE 4-B



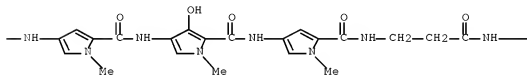
RN 212483-29-9 HCAPLUS

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 4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-
 pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-
 4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-
 pyrrole-2-carbonyl-β-alanyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-
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 (CA INDEX NAME)

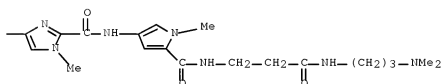
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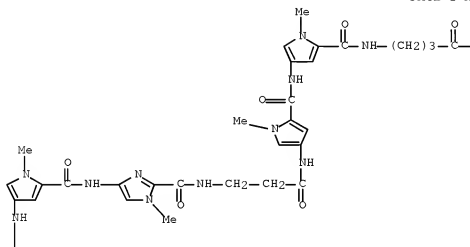


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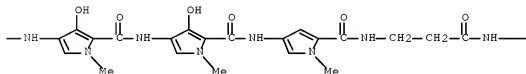


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(CA INDEX NAME)

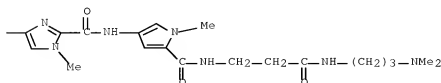
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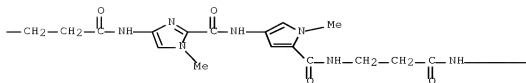


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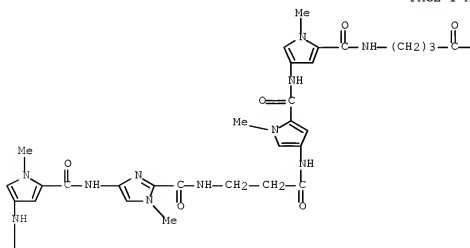
PAGE 1-C



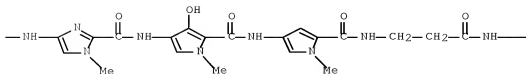


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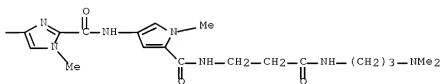
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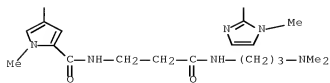
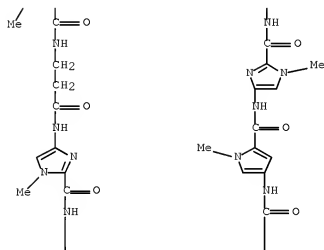
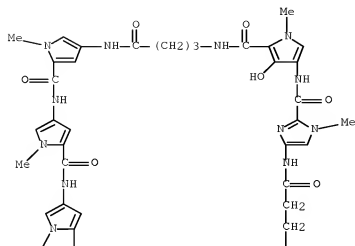


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RN 212483-33-5 HCAPLUS

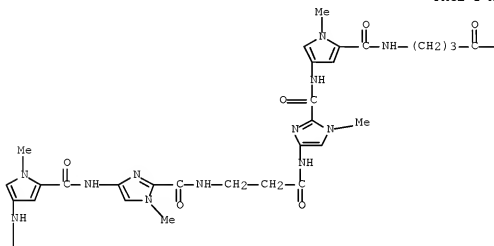
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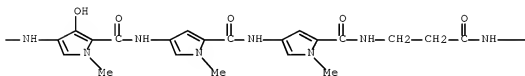
RN 212483-34-6 HCAPLUS

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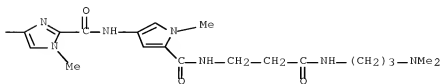
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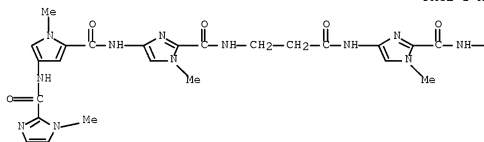




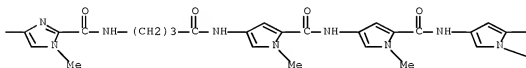
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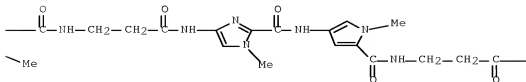
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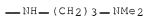


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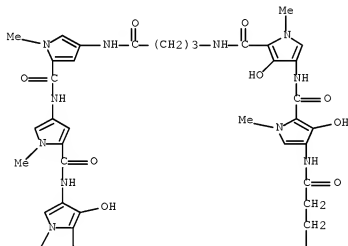
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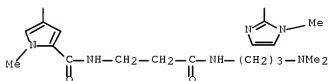
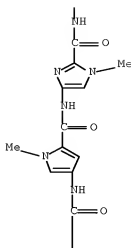
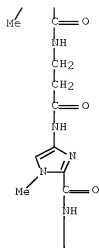


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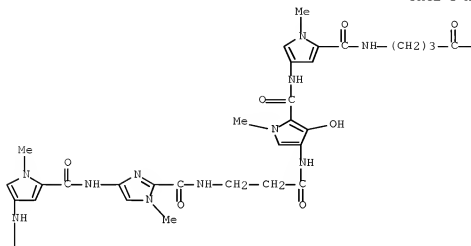




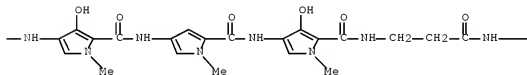
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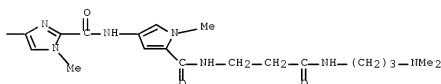
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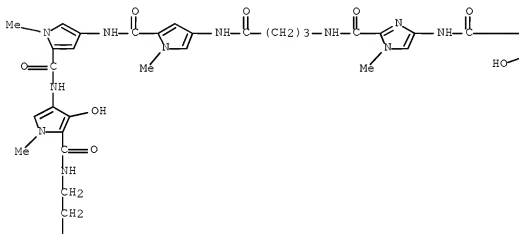


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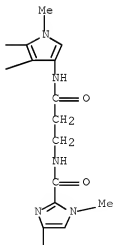


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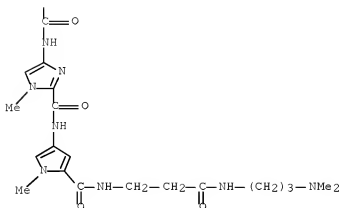
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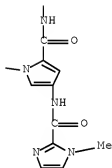


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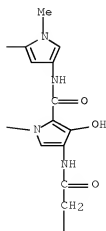
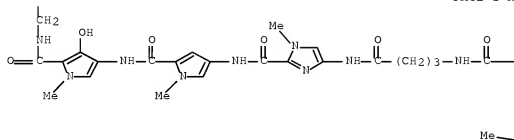
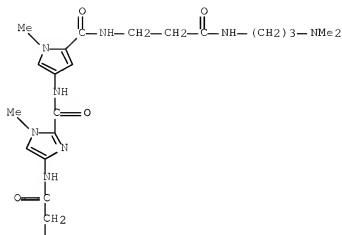
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RN 212483-44-8 HCAPLUS

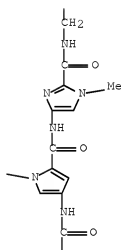
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RN 212483-45-9 HCAPLUS

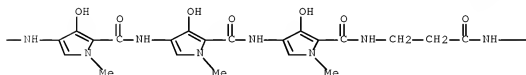
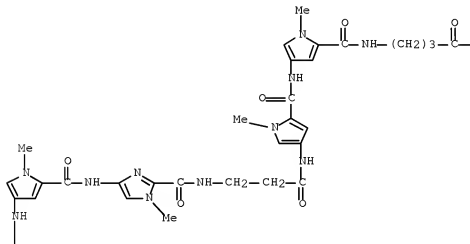
CN β -Alaninamide, 1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl- β -alanyl-

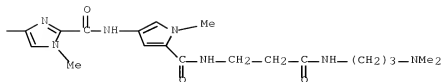
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RN 212483-46-0 HCAPLUS

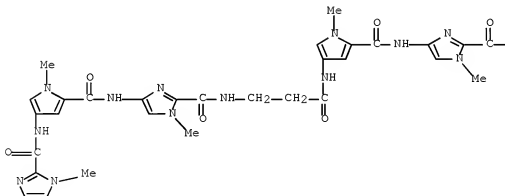
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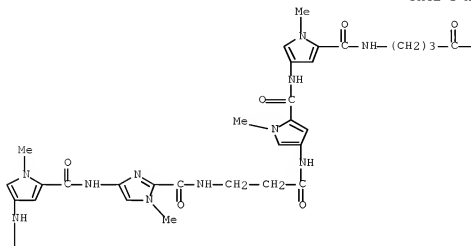


RN 212483-47-1 HCAPLUS

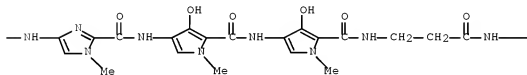
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(CA INDEX NAME)



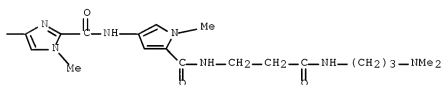
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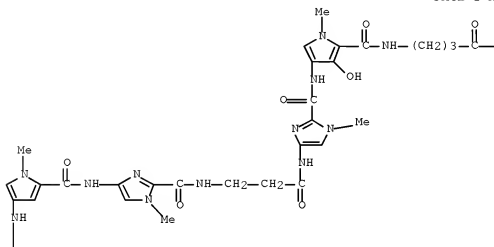


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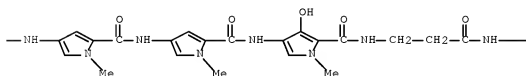


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(CA INDEX NAME)

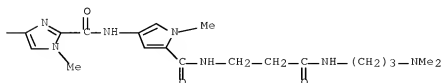
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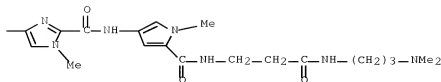


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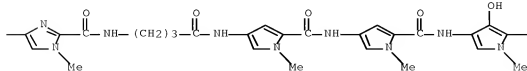
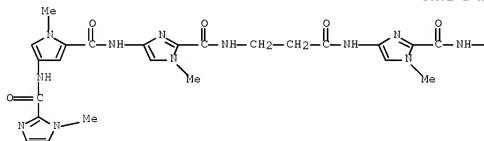
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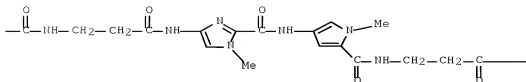


RN 212483-53-9 HCAPLUS

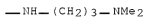
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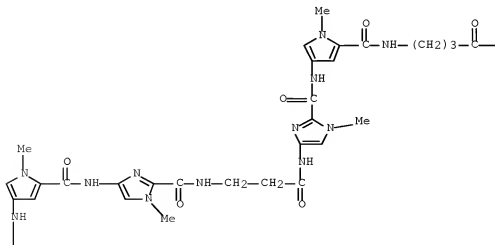
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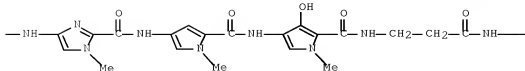
RN 212483-54-0 HCAPLUS

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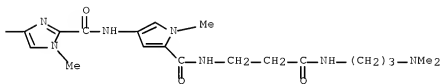
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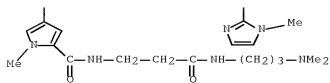
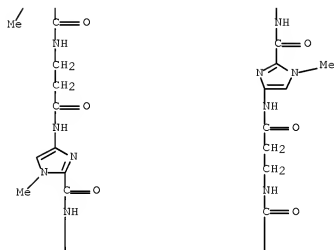
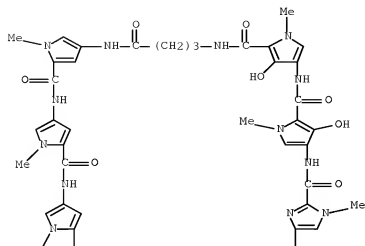


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RN 212483-62-0 HCAPLUS

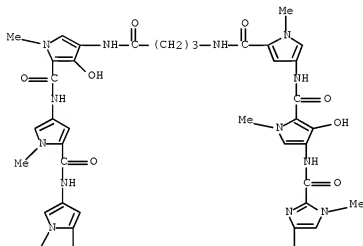
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(CA INDEX NAME)



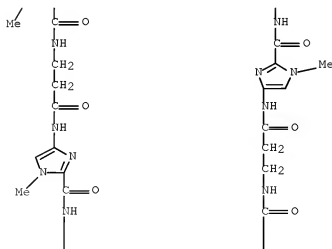
RN 212483-64-2 HCAPLUS

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(CA INDEX NAME)

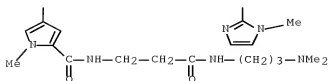
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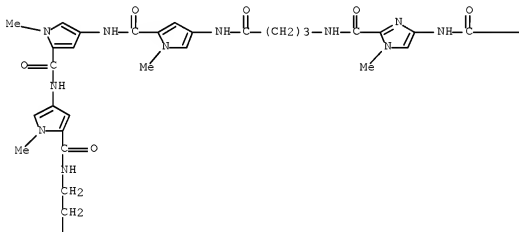
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RN 212483-67-5 HCAPLUS

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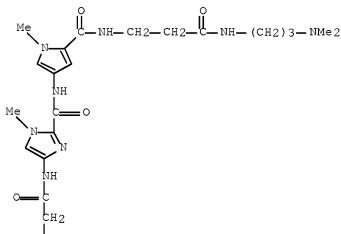
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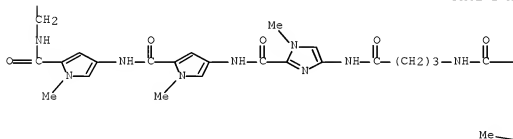
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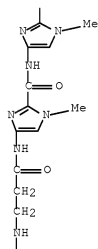
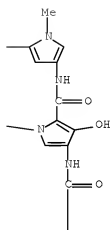
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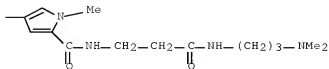
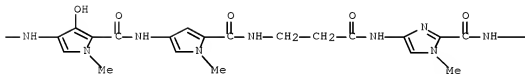
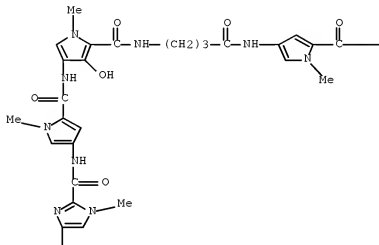
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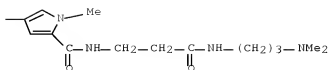


RN 212483-70-0 HCAPLUS

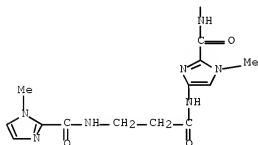
CN β -Alaninamide, 1-methyl-1H-imidazole-2-carbonyl- β -alanyl-4-amino-



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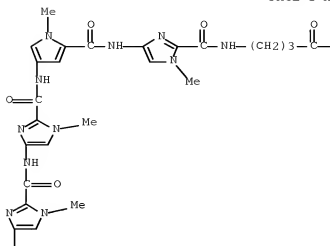


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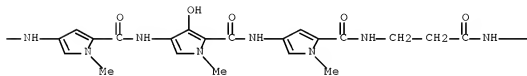


RN 212483-74-4 HCAPLUS
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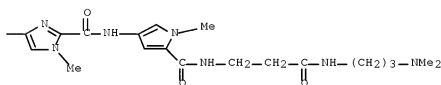
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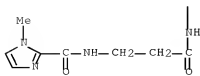
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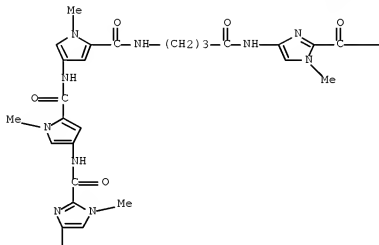
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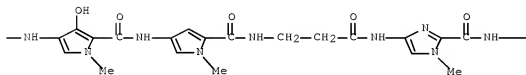
RN 212483-77-7 HCAPLUS

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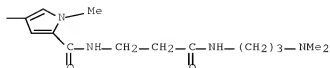
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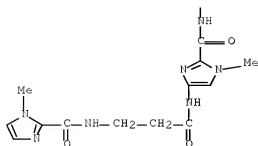


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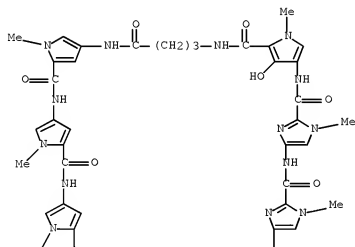
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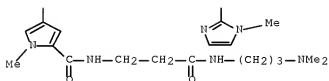
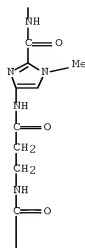
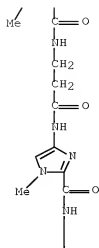




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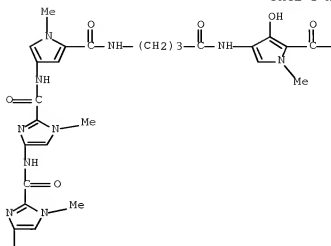




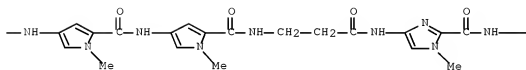
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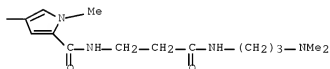
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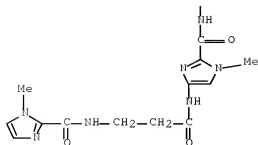


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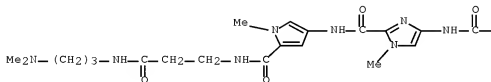




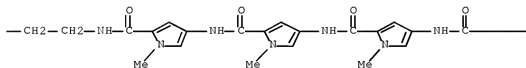
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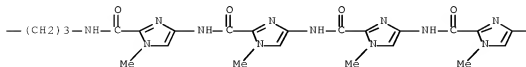
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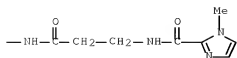
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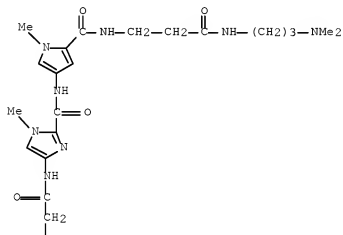
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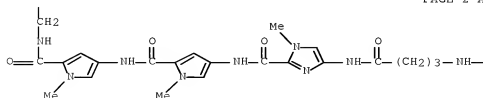
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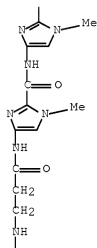
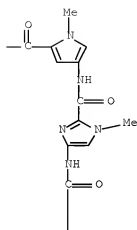
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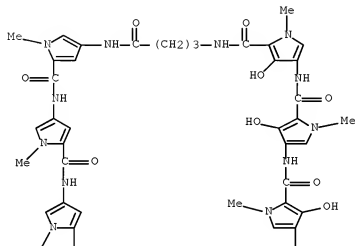


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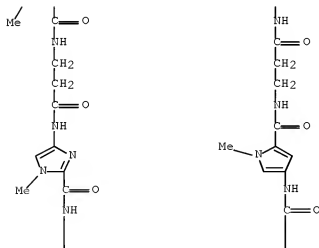
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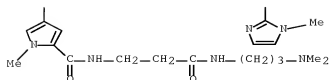
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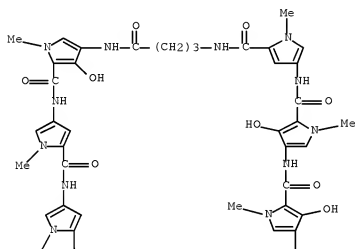
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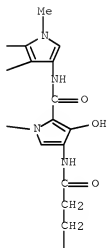
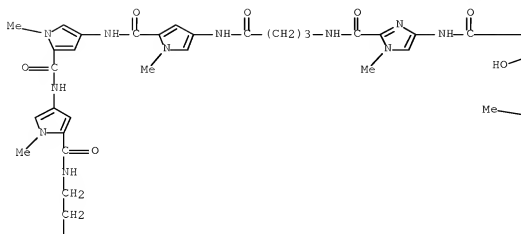




RN 212484-15-6 HCAPLUS

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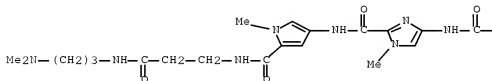
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RL: BAC (Biological activity or effector, except adverse); BPR (Biological process); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)
(design and use of specific polyamide DNA-binding ligands for modulation of gene expression)

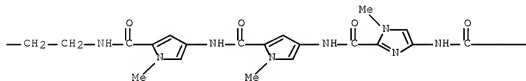
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(CA INDEX NAME)

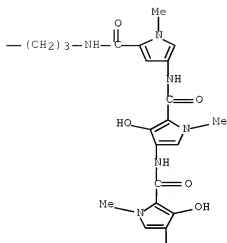
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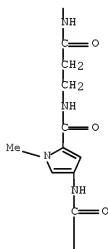
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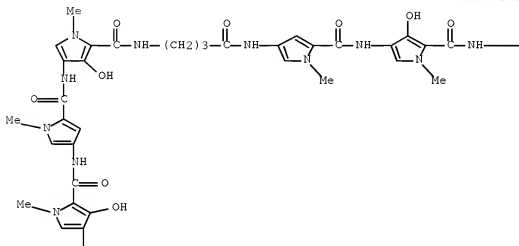


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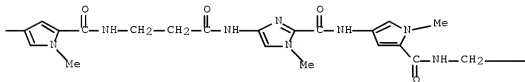
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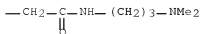
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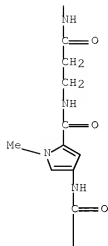


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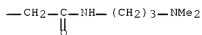
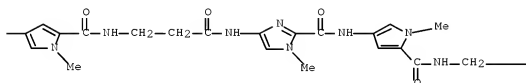
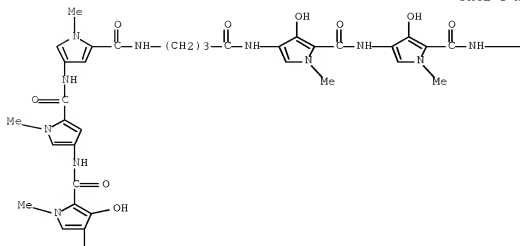
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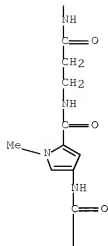




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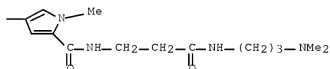
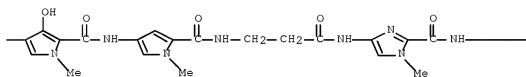
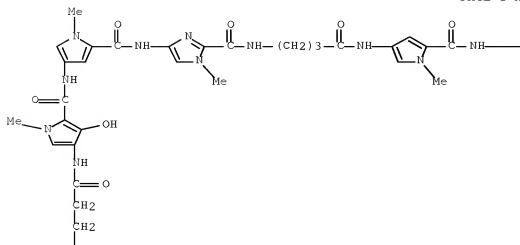
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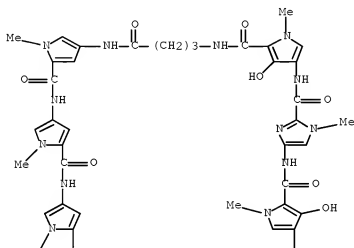
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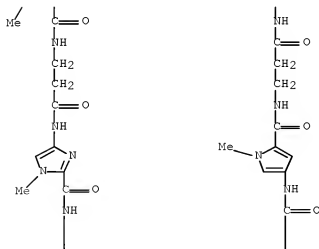


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(CA INDEX NAME)

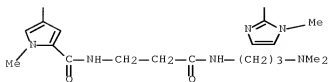
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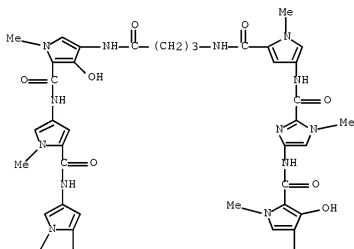
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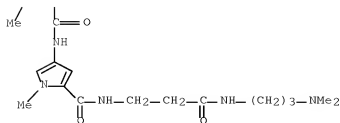
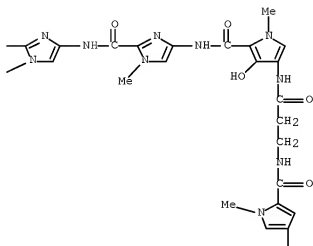
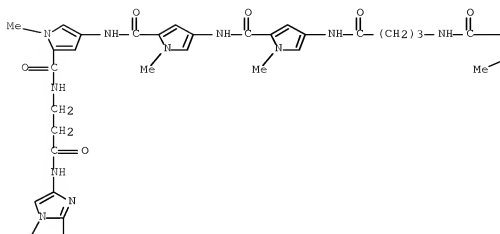


RN 212484-25-8 HCAPLUS

CN β -Alaninamide, 1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl- β -alanyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl- β -alanyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI)
(CA INDEX NAME)

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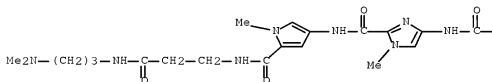
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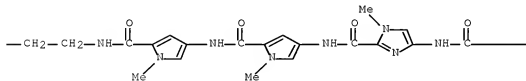
RN 212484-27-0 HCAPLUS

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(CA INDEX NAME)

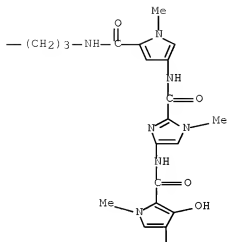
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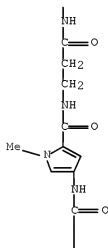
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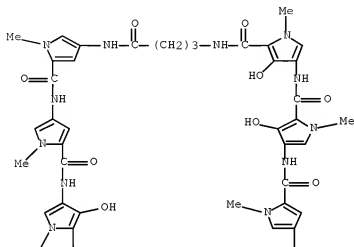


RN 212484-34-9 HCAPLUS

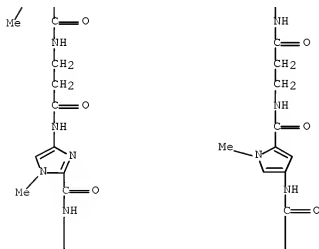
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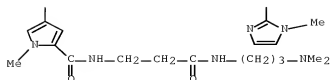
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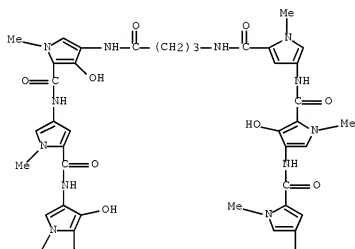
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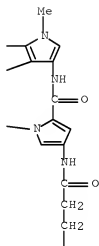
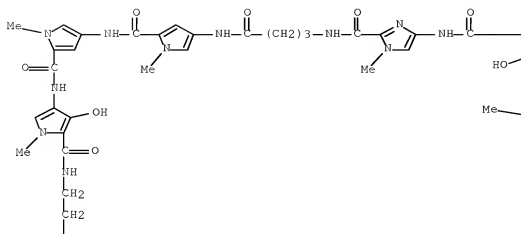




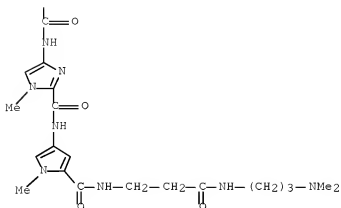
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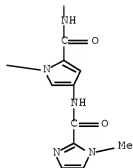


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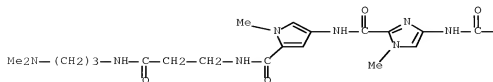
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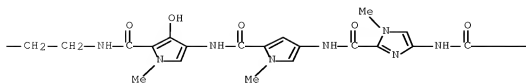
RN 212484-37-2 HCAPLUS

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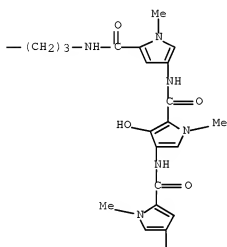
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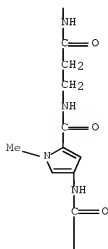
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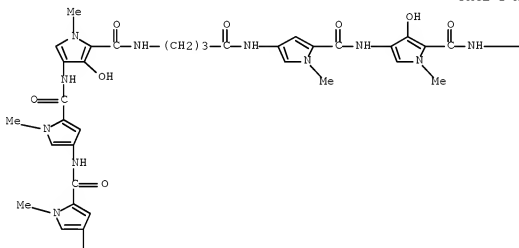
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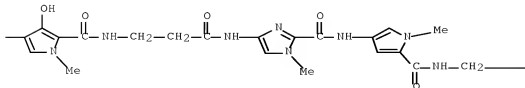
RN 212484-38-3 HCAPLUS

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(CA INDEX NAME)

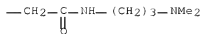
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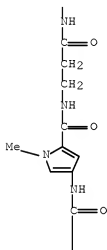
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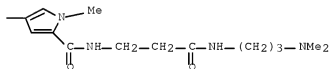
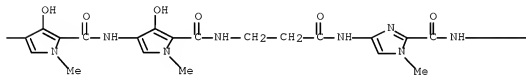
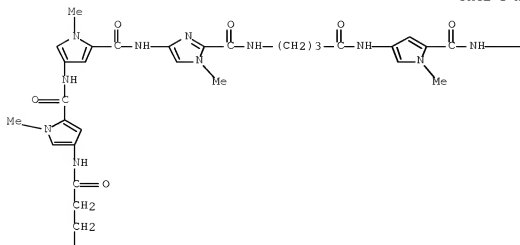


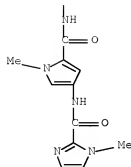
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RN 212484-41-8 HCAPLUS

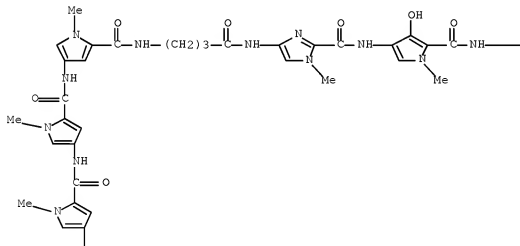
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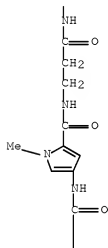
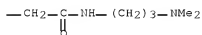
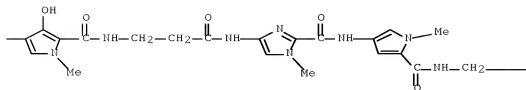




RN 212484-42-9 HCAPLUS

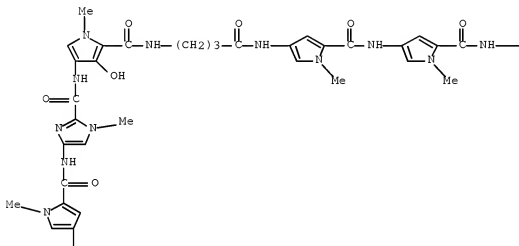
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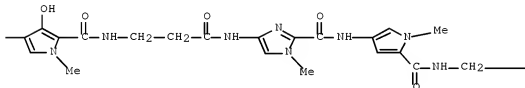


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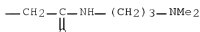
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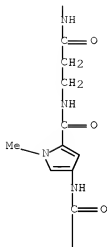
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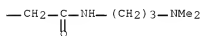
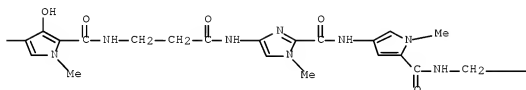
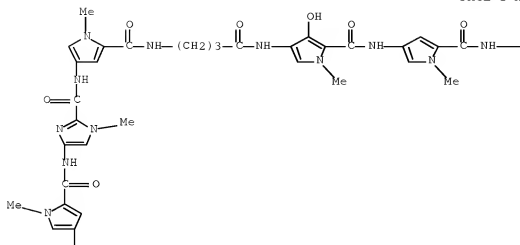
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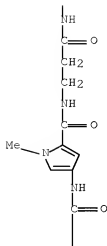


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RN 212484-44-1 HCAPLUS
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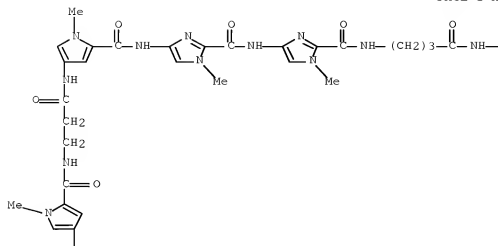




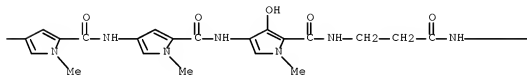
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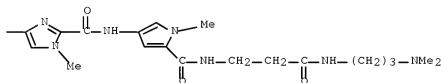
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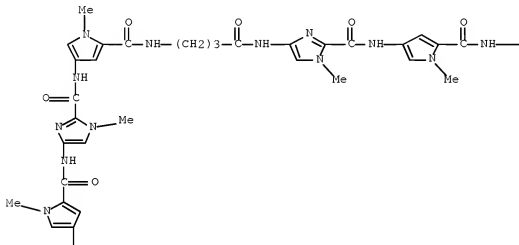
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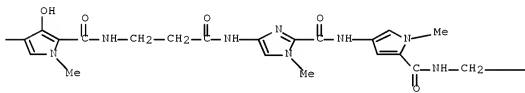
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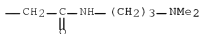
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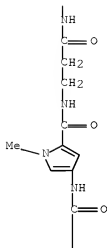
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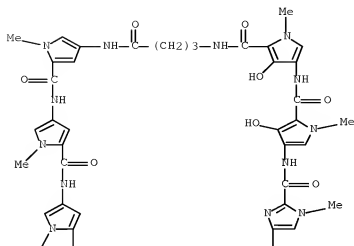
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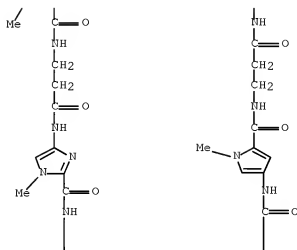
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(CA INDEX NAME)

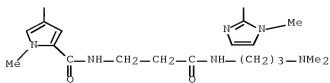
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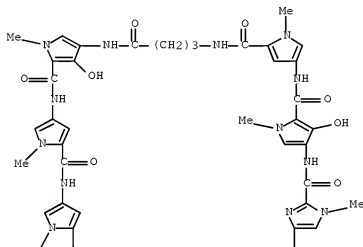
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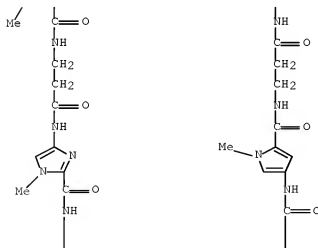
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(CA INDEX NAME)

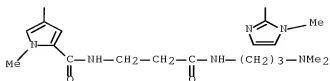
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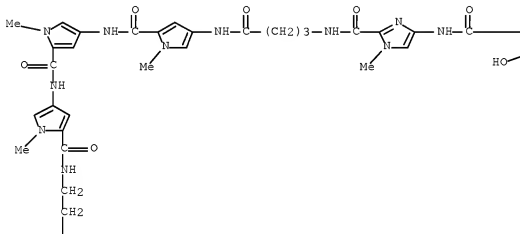
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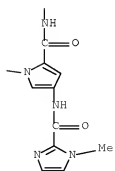
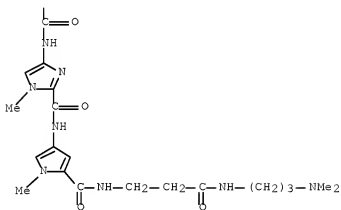
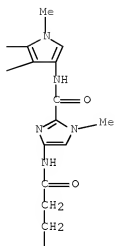


RN 212484-53-2 HCAPLUS

CN β -Alaninamide, 1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl- β -alanyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl- β -alanyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI)
(CA INDEX NAME)

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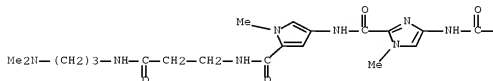




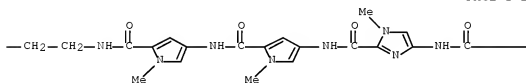
RN 212484-55-4 HCAPLUS

CN β -Alaninamide, 1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl- β -alanyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl- β -alanyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI)
(CA INDEX NAME)

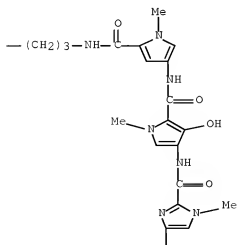
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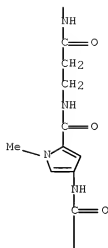
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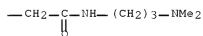
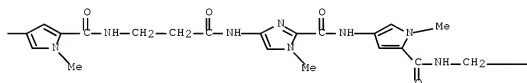
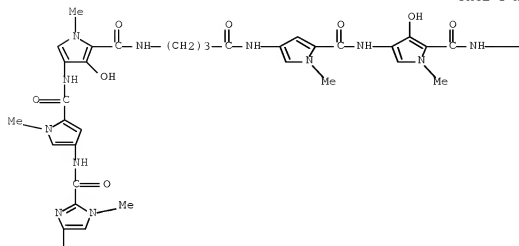
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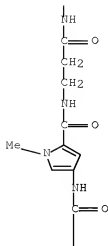


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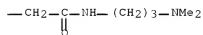
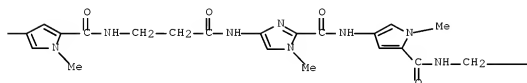
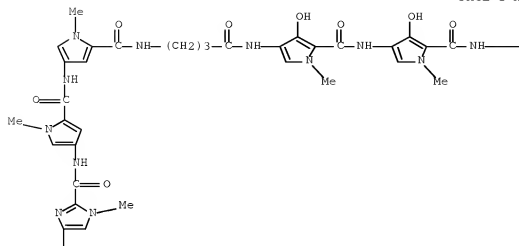


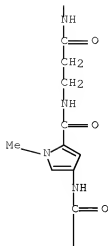
RN 212484-56-5 HCAPLUS
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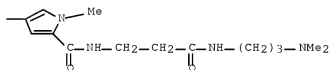
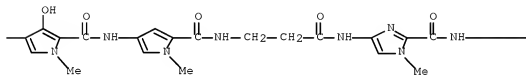
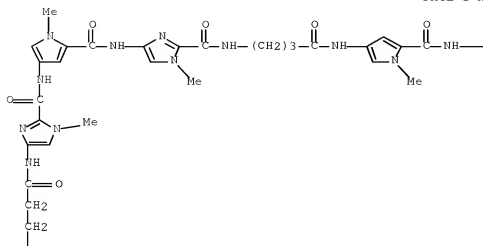
RN 212484-57-6 HCAPLUS
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 oxopropyl]amino]carbonyl]-1-methyl-1H-pyrrol-3-yl]amino]carbonyl]-4-
 hydroxy-1-methyl-1H-pyrrol-3-yl]amino]carbonyl]-4-hydroxy-1-methyl-1H-
 pyrrol-3-yl]amino]-4-oxobutyl]amino]carbonyl]-1-methyl-1H-pyrrol-3-
 yl]amino]carbonyl]-1-methyl-1H-pyrrol-3-yl]-1-methyl-4-[[3-[[[1-methyl-4-
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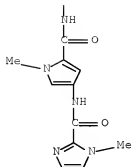




RN 212484-58-7 HCAPLUS

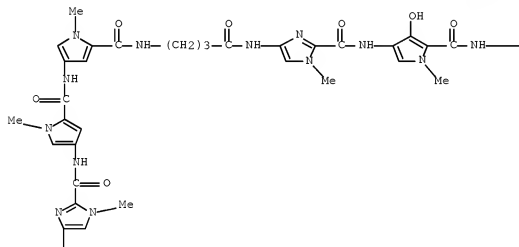
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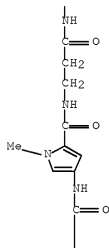
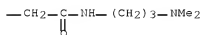
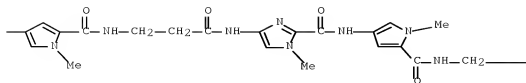




RN 212484-59-8 HCAPLUS

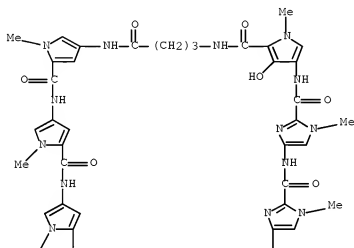
CN β -Alaninamide, 1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl- β -alanyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl- β -alanyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]-(9CI) (CA INDEX NAME)



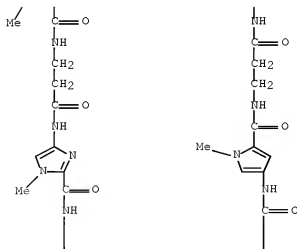


CN β -Alaninamide, 1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl- β -alanyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl- β -alanyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)

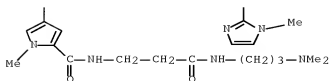
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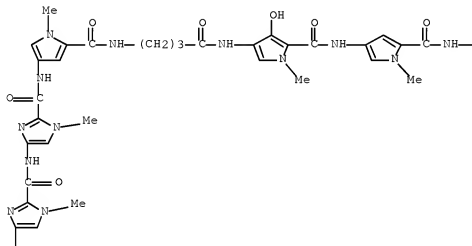
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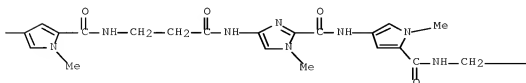
RN 212484-61-2 HCAPLUS

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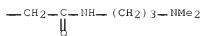
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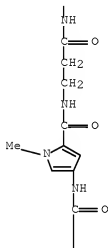
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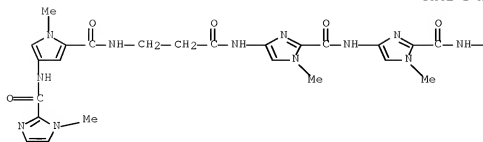
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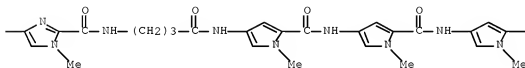
RN 212484-67-8 HCAPLUS

CN β -Alaninamide, 1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl- β -alanyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl- β -alanyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)

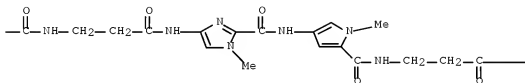
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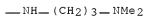
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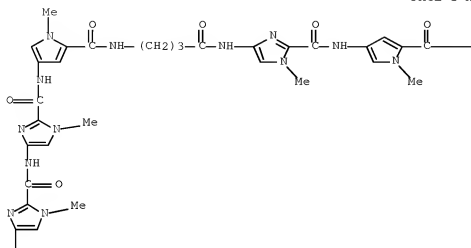
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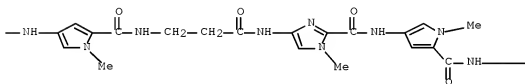
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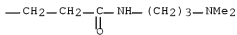
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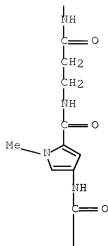


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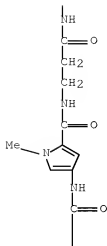
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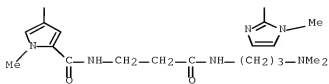
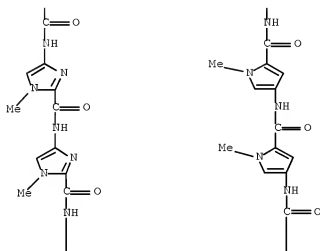
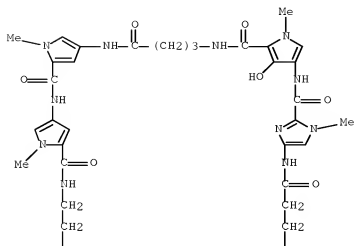
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RN 212485-15-9 HCAPLUS

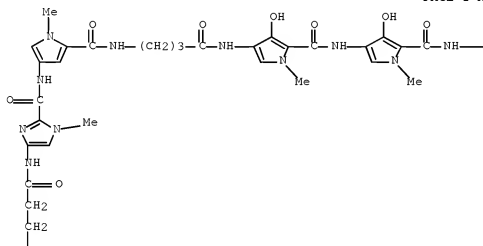
CN β -Alaninamide, 1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl- β -alanyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl- β -alanyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)



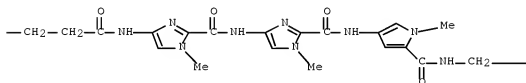
RN 212485-17-1 HCAPLUS

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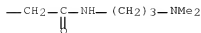
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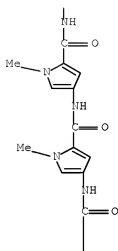
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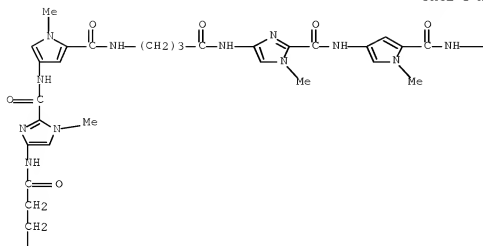
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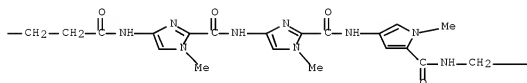
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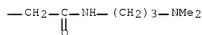
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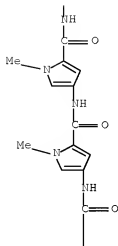


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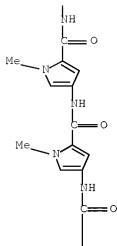
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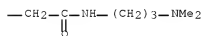
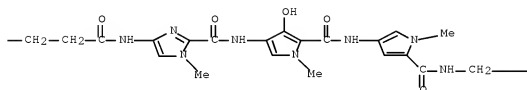
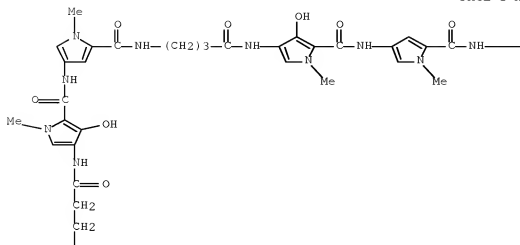
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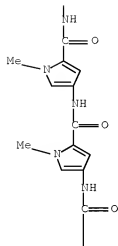
CN β -Alaninamide, 1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl- β -alanyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl- β -alanyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)



RN 212488-16-9 HCAPLUS

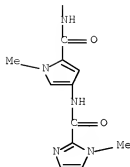
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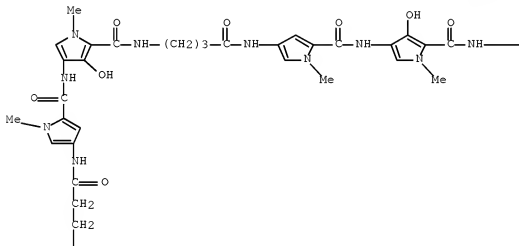
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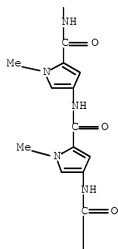
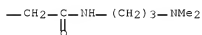
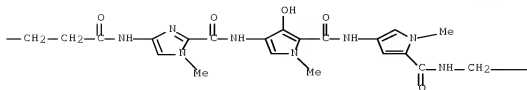
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RN 212488-22-7 HCAPLUS

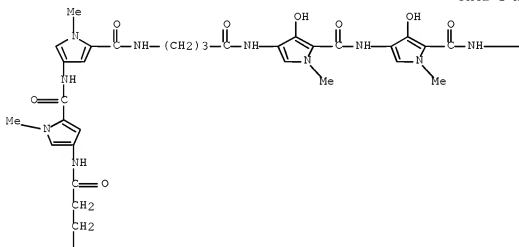
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(CA INDEX NAME)



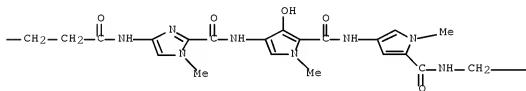


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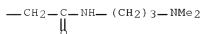
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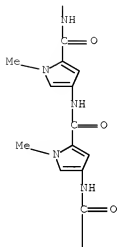
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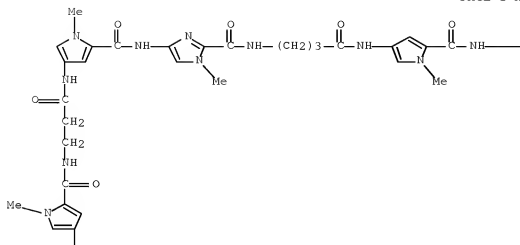
PAGE 3-A



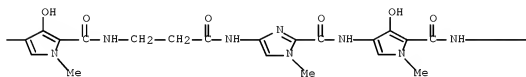
RN 212488-26-1 HCAPLUS

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(CA INDEX NAME)

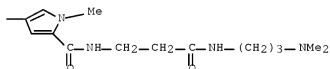
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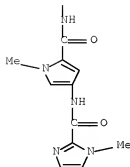


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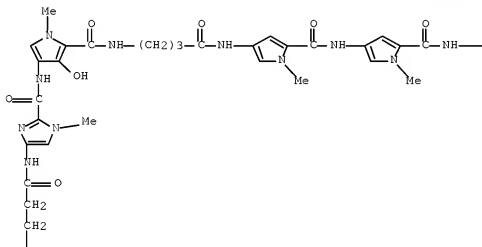
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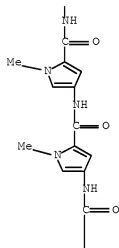
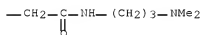
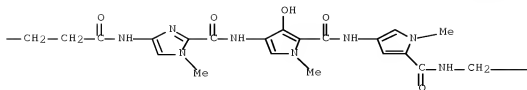




RN 212488-30-7 HCAPLUS

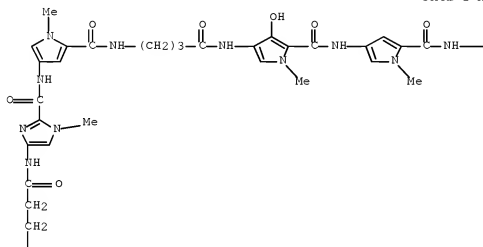
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(CA INDEX NAME)



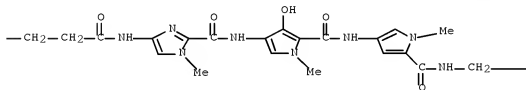


CN β -Alaninamide, 1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl- β -alanyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl- β -alanyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI)
(CA INDEX NAME)

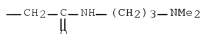
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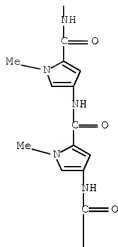
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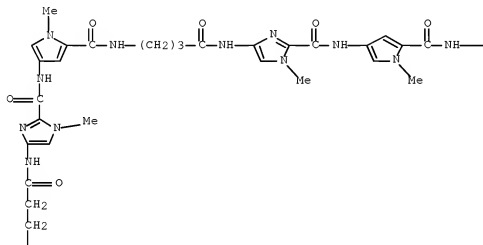
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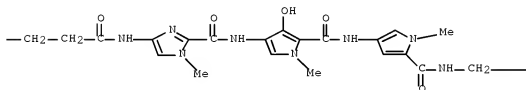
RN 212488-36-3 HCAPLUS

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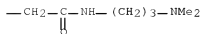
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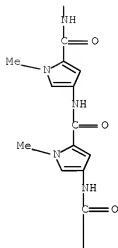
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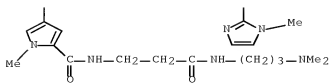
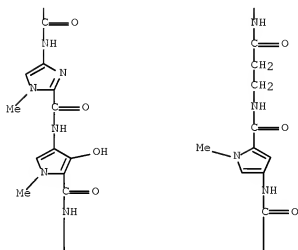
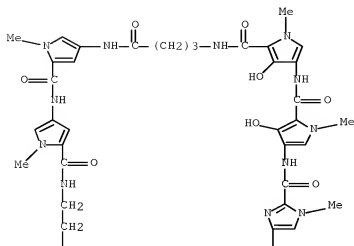


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RN 212488-78-3 HCAPLUS

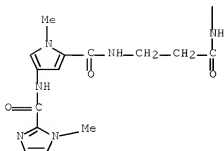
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CN	β -Alaninamide, 1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl- β -alanyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl- β -alanyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)
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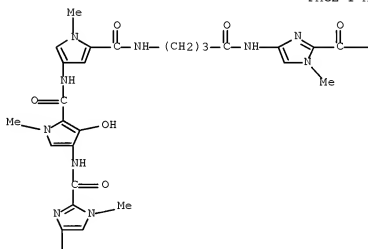
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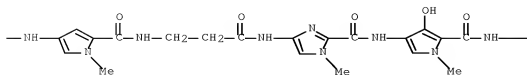
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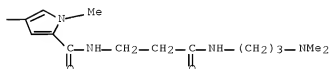
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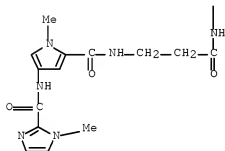
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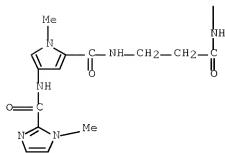


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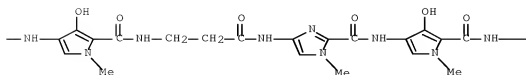
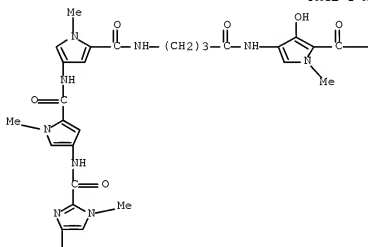
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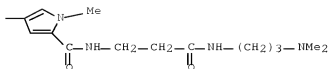


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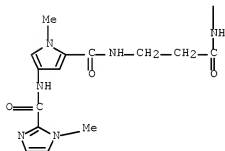
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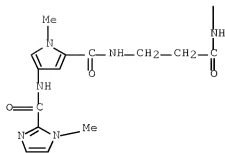


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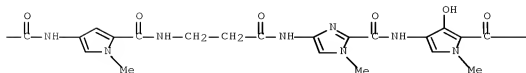
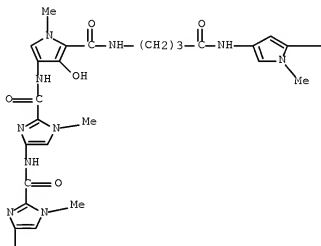
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(CA INDEX NAME)

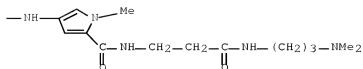


RN 212489-08-2 HCAPLUS

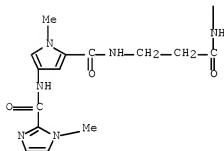
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(CA INDEX NAME)



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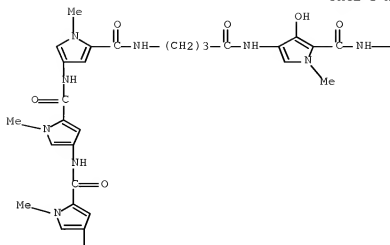
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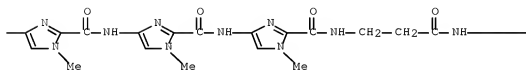
RN 212489-53-7 HCAPLUS

CN β -Alaninamide, 1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl- β -alanyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-imidazole-2-carbonyl- β -alanyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)

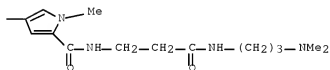
PAGE 1-A

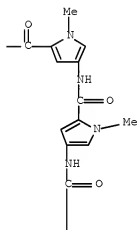
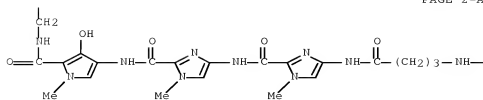


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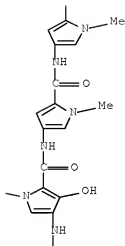


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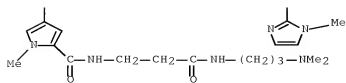
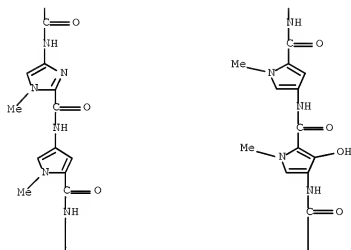
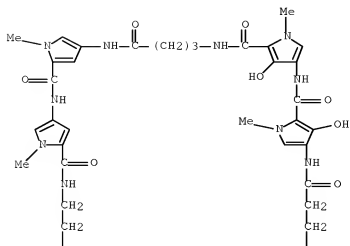




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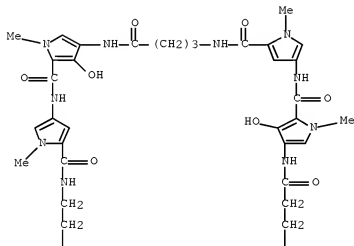
RN 212496-53-2 HCAPLUS
 CN 1H-Imidazole-2-carboxamide, N-[5-[[[5-[[[3-[[3-(dimethylamino)propyl]amino]-3-oxopropyl]amino]carbonyl]-1-methyl-1H-pyrrol-3-yl]amino]carbonyl]-1-methyl-1H-pyrrol-3-yl]-4-[[3-[[[4-[[[4-[[[3-hydroxy-4-[[[3-hydroxy-4-[[3-[[[4-[[[3-hydroxy-1-methyl-4-[[[1-methyl-1H-imidazol-2-yl]carbonyl]amino]-1H-pyrrol-2-yl]carbonyl]amino]-1-methyl-1H-pyrrol-2-yl]carbonyl]amino]-1-oxopropyl]amino]-1-methyl-1H-pyrrol-2-yl]carbonyl]amino]-1-methyl-1H-pyrrol-2-yl]carbonyl]amino]-1-oxobutyl]amino]-1-methyl-1H-pyrrol-2-yl]carbonyl]amino]-1-methyl-1H-pyrrol-2-yl]carbonyl]amino]-1-oxopropyl]amino]-1-methyl- (CA INDEX NAME)



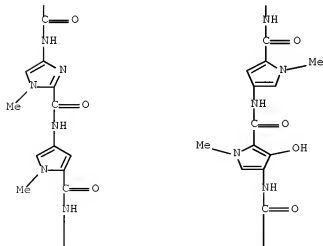
RN 212496-59-8 HCAPLUS

CN 1H-Imidazole-2-carboxamide, N-[5-[[[5-[[[3-[[3-(dimethylamino)propyl]amino]-3-oxopropyl]amino]carbonyl]-1-methyl-1H-pyrrol-3-yl]amino]carbonyl]-1-methyl-1H-pyrrol-3-yl]-4-[[[3-[[[4-[[[3-hydroxy-4-[[[4-[[[4-[[[3-hydroxy-4-[[[3-[[[4-[[[3-hydroxy-1-methyl-4-[[[1-methyl-1H-imidazol-2-yl]carbonyl]amino]-1H-pyrrol-2-yl]carbonyl]amino]-1-methyl-1H-pyrrol-2-yl]carbonyl]amino]-1-oxopropyl]amino]-1-methyl-1H-pyrrol-2-yl]carbonyl]amino]-1-methyl-1H-pyrrol-2-yl]carbonyl]amino]-1-oxobutyl]amino]-1-methyl-1H-pyrrol-2-yl]carbonyl]amino]-1-methyl-1H-pyrrol-2-yl]carbonyl]amino]-1-oxopropyl]amino]-1-methyl- (CA INDEX NAME)

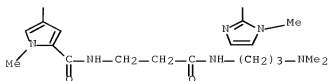
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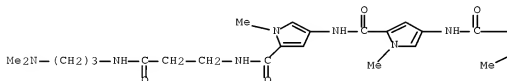
PAGE 3-A



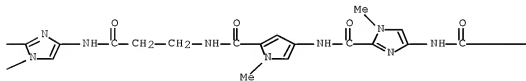
RN 212496-68-9 HCAPLUS

CN β -Alaninamide, 1-methyl-1H-imidazole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl- β -alanyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl- β -alanyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI)
(CA INDEX NAME)

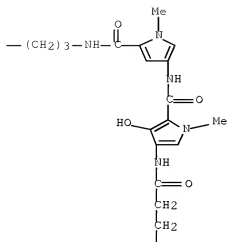
PAGE 1-A



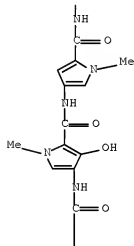
PAGE 1-B



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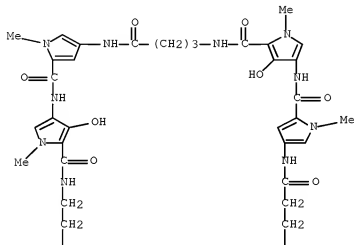
PAGE 3-C



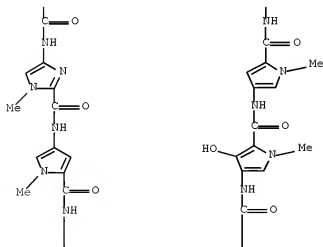
RN 212496-73-6 HCAPLUS
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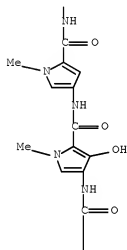
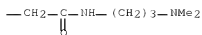
pyrrol-3-yl]amino]carbonyl]-1-methyl-1H-pyrrol-3-yl]-4-[[3-[[[3-hydroxy-4-
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1H-imidazol-2-yl]carbonyl]amino]-1H-pyrrol-2-yl]carbonyl]amino]-1-methyl-
1H-pyrrol-2-yl]carbonyl]amino]-1-oxopropyl]amino]-1-methyl-1H-pyrrol-2-
yl]carbonyl]amino]-1-methyl-1H-pyrrol-2-yl]carbonyl]amino]-1-
oxobutyl]amino]-1-methyl-1H-pyrrol-2-yl]carbonyl]amino]-1-methyl-1H-pyrrol-
2-yl]carbonyl]amino]-1-oxopropyl]amino]-1-methyl- (CA INDEX NAME)

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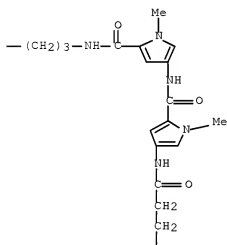
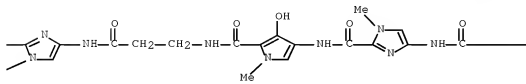
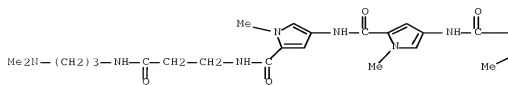
PAGE 2-A

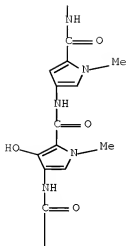




RN 212496-88-3 HCAPLUS

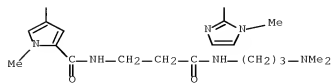
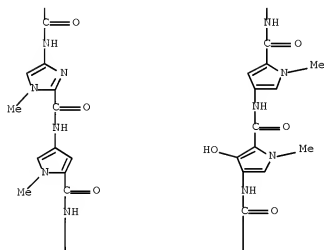
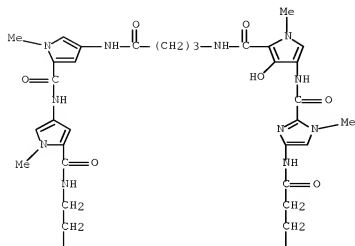
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(CA INDEX NAME)





RN 212496-93-0 HCAPLUS

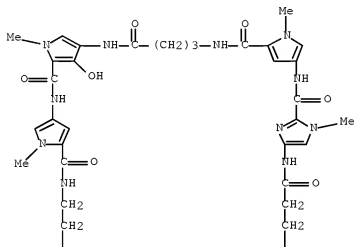
CN β -Alaninamide, 1-methyl-1H-imidazole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl- β -alanyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-aminobutanoyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl- β -alanyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI)
(CA INDEX NAME)



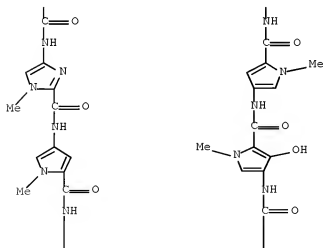
RN 212496-98-5 HCAPLUS

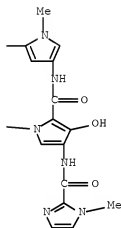
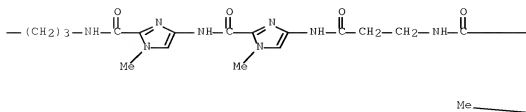
CN β -Alaninamide, 1-methyl-1H-imidazole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl- β -alanyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl- β -alanyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI)
(CA INDEX NAME)

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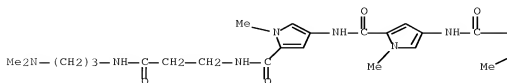
PAGE 2-A



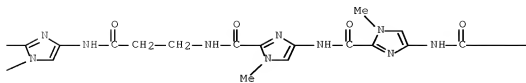


RN 212497-28-4 HCAPLUS

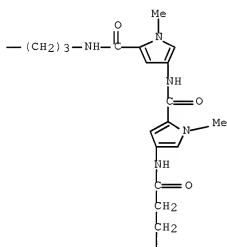
CN 1H-Imidazole-2-carboxamide, N-[2-[[[3-[[2-[[[5-[[[5-[[[3-[[[3-(dimethylamino)propyl]amino]-3-oxopropyl]amino]carbonyl]-1-methyl-1H-pyrrol-3-yl]amino]carbonyl]-1-methyl-1H-pyrrol-3-yl]amino]carbonyl]-1-methyl-1H-imidazol-4-yl]amino]-3-oxopropyl]amino]carbonyl]-1-methyl-1H-imidazol-4-yl]-4-[[[4-[[[4-[[[4-[[[3-[[[4-[[[3-hydroxy-1-methyl-4-[[[1-methyl-1H-imidazol-2-yl]carbonyl]amino]-1H-pyrrol-2-yl]carbonyl]amino]-1-methyl-1H-pyrrol-2-yl]carbonyl]amino]-1-oxopropyl]amino]-1-methyl-1H-pyrrol-2-yl]carbonyl]amino]-1-methyl-1H-pyrrol-2-yl]carbonyl]amino]-1-oxobutyl]amino]-1-methyl- (CA INDEX NAME)



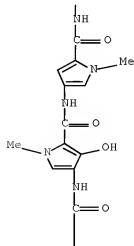
PAGE 1-B



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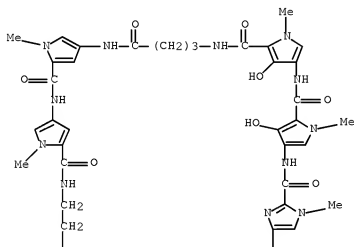


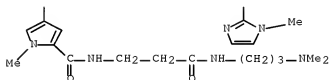
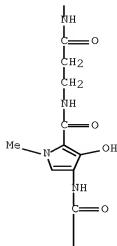
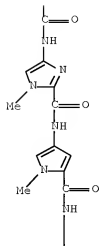
PAGE 3-C

RN 212497-82-0 HCAPLUS

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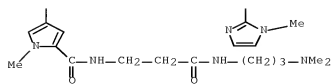
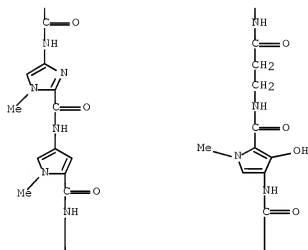
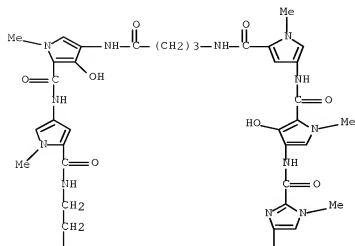
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RN 212497-86-4 HCAPLUS

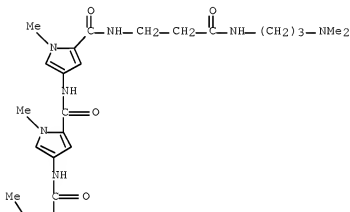
CN 1H-Imidazole-2-carboxamide, N-[5-[[[5-[[[4-[[5-[[[5-[[[3-[2-[[5-[[[5-[[[3-[[3-(dimethylamino)propyl]amino]-3-oxopropyl]amino]carbonyl]-1-methyl-1H-pyrrol-3-yl]amino]carbonyl]-1-methyl-1H-pyrrol-3-yl]amino]carbonyl]-1-methyl-1H-imidazol-4-yl]amino]-3-oxopropyl]amino]carbonyl]-1-methyl-1H-pyrrol-3-yl]amino]carbonyl]-4-hydroxy-1-methyl-1H-pyrrol-3-yl]amino]carbonyl]-4-oxobutyl]amino]carbonyl]-1-methyl-1H-pyrrol-3-yl]amino]carbonyl]-4-hydroxy-1-methyl-1H-pyrrol-3-yl]-4-[[3-[[[3-hydroxy-1-methyl-4-[[[1-methyl-1H-imidazol-2-yl]carbonyl]amino]-1H-pyrrol-2-yl]carbonyl]amino]-1-oxopropyl]amino]-1-methyl- (CA INDEX NAME)



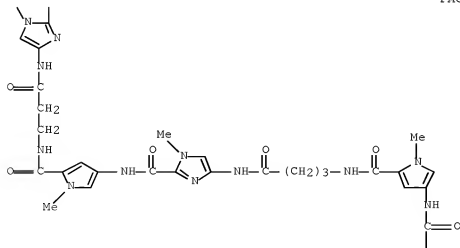
RN 212497-94-4 HCAPLUS

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(CA INDEX NAME)

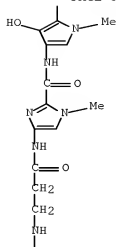
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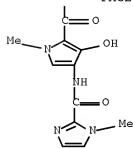
PAGE 2-A



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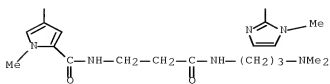
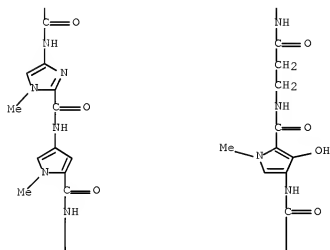
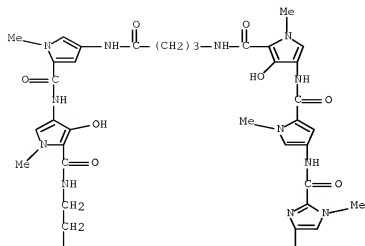


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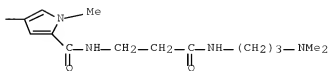
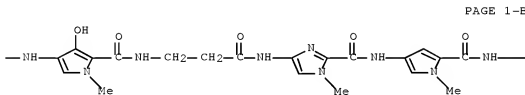
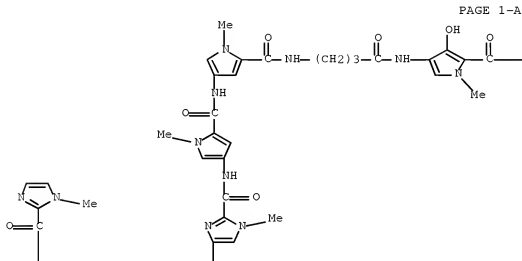


RN 212497-97-7 HCAPLUS

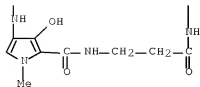
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CN β -Alaninamide, 1-methyl-1H-imidazole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl- β -alanyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl-4-amino-3-hydroxy-1-methyl-1H-pyrrole-2-carbonyl- β -alanyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)



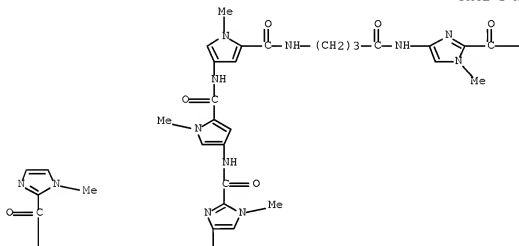
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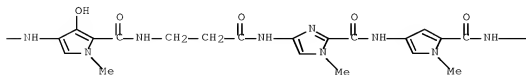
RN 212498-04-9 HCAPLUS

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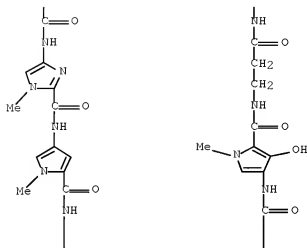
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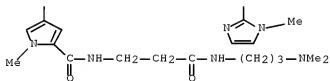
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PAGE 2-A



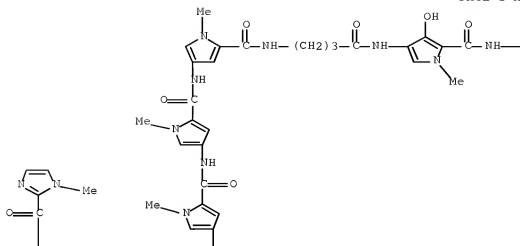
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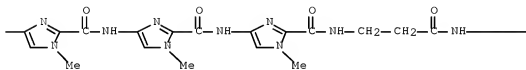
RN 212498-42-5 HCAPLUS

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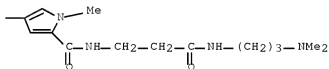
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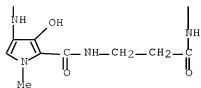
PAGE 1-B



PAGE 1-C



PAGE 2-A



REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

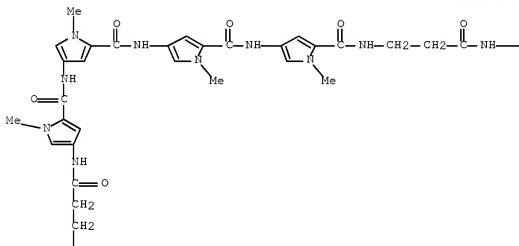
L29 ANSWER 11 OF 16 HCAPLUS COPYRIGHT 2009 ACS ON STN
 ACCESSION NUMBER: 1998:568743 HCAPLUS Full-text
 DOCUMENT NUMBER: 129:184244
 ORIGINAL REFERENCE NO.: 129:37273a,37276a
 TITLE: Inhibition of viral or cancer gene transcription by polyamide DNA-binding ligands
 INVENTOR(S): Gottesfeld, Joel M.; Dervan, Peter B.; Mosier, Donald E.; Baird, Eldon E.
 PATENT ASSIGNEE(S): California Institute of Technology, USA; The Scripps Research Institute
 SOURCE: PCT Int. Appl., 113 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 13
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9835702	A1	19980820	WO 1998-US2444	19980211 <--
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, GW, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW				
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AU 9861517	A	19980908	AU 1998-61517	19980211 <--
AU 749953	B2	20020704		
EP 964703	A1	19991222	EP 1998-906240	19980211 <--
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US 6660255	B1	20031209	US 2000-367513	20000425 <--
PRIORITY APPLN. INFO.:			US 1997-38384P	P 19970214 <--
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			US 1997-853022	A2 19970421 <--
			WO 1997-US12722	A2 19970721 <--
			US 1997-853522	A 19970508 <--
			US 1997-853525	A 19970508 <--
			US 1997-56048P	P 19970902 <--
			US 1997-58338P	P 19970910 <--
			WO 1998-US2444	W 19980211 <--

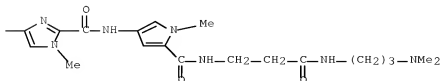
ED Entered STN: 07 Sep 1998

- AB The invention provides polyamides suitable for modulating cellular or viral gene expression by binding to an identified target DNA sequence adjacent to the binding site of a minor groove transcription factor protein. The polyamides of the present invention are useful for the treatment of a human infected with a virus such as HIV-1. The polyamides of the present invention are also useful for the treatment of conditions, such as cancers, that result from the expression or over-expression of cellular genes, particularly oncogenes.
- IT 211860-89-8 211860-90-1
 RL: BPR (Biological process); BSU (Biological study, unclassified); PEP (Physical, engineering or chemical process); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)
 (inhibition of viral or cancer gene transcription by polyamide DNA-binding ligands)
- RN 211860-89-8 HCAPLUS
- CN β -Alaninamide, 1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl- β -alanyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl- β -alanyl-4-amino-1-methyl-1H-imidazole-2-carbonyl-4-amino-1-methyl-1H-pyrrole-2-carbonyl-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)

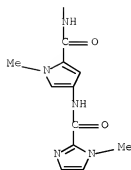
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PAGE 1-B



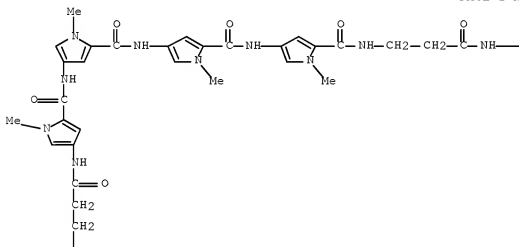
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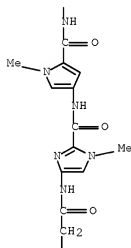
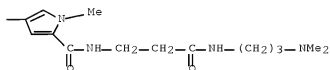
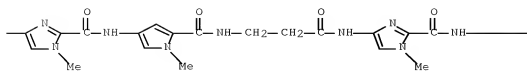


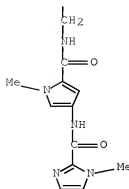
RN 211860-90-1 HCAPLUS

CN β -Alaninamide, 1-methyl-1H-imidazole-2-carboxyl-4-amino-1-methyl-1H-pyrrole-2-carboxyl- β -alanyl-4-amino-1-methyl-1H-imidazole-2-carboxyl-4-amino-1-methyl-1H-pyrrole-2-carboxyl- β -alanyl-4-amino-1-methyl-1H-pyrrole-2-carboxyl-4-amino-1-methyl-1H-pyrrole-2-carboxyl-4-amino-1-methyl-1H-pyrrole-2-carboxyl-4-aminobutanoyl-4-amino-1-methyl-1H-imidazole-2-carboxyl-4-amino-1-methyl-1H-pyrrole-2-carboxyl- β -alanyl-4-amino-1-methyl-1H-imidazole-2-carboxyl-4-amino-1-methyl-1H-pyrrole-2-carboxyl-N-[3-(dimethylamino)propyl]- (9CI)
(CA INDEX NAME)

PAGE 1-A







REFERENCE COUNT: 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L29 ANSWER 12 OF 16 HCAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 1996:386564 HCAPLUS Full-text

DOCUMENT NUMBER: 125:108335

ORIGINAL REFERENCE NO.: 125:20155a

TITLE: Extended hairpin polyamide motif for sequence-specific recognition in the minor groove of DNA

AUTHOR(S): Trauger, John W.; Baird, Eldon E.; Dervan, Peter B.

CORPORATE SOURCE: Arnold and Mabel Beckman Lab. Chem. Synthesis, California Inst. Technol., Pasadena, CA, 91125, USA

SOURCE: Chemistry & Biology (1996), 3(5), 369-377

CODEN: CBOLE2; ISSN: 1074-5521

PUBLISHER: Current Biology

DOCUMENT TYPE: Journal

LANGUAGE: English

ED Entered STN: 04 Jul 1996

AB Three-ring polyamides containing N-methylimidazole and N-methylpyrrole amino acids bind sequence-specifically to double-helical DNA by forming side-by-side complexes in the minor groove. Simple pairing rules relate the amino-acid sequence of a pyrrole-imidazole polyamide to its expected DNA target site, and polyamides that target a wide variety of DNA sequences have been synthesized. We have shown previously that two three-ring subunits could be linked together by an aliphatic amino acid, increasing the binding affinity of the polyamide and, in some cases, increasing the length of the target sequence. We set out to determine whether different types of linkers could be used in a single mol. to generate a nine-ring polyamide mol. that would bind to specific DNA sequences. A nine-ring pyrrole-imidazole polyamide, containing two different amino acid linkers, β -alanine and γ -aminobutyric acid, has been synthesized and shown to specifically bind a designated nine-base-pair target site at subnanomolar concentration in a novel extended hairpin conformation. The amino acids γ -aminobutyric acid and β -alanine optimally link three-ring pyrrole-imidazole subunits in 'hairpin' and 'extended' conformations, resp. Both aliphatic amino acids can be combined to generate a nine-ring polyamide that specifically recognizes a nine-base-pair target site with very high affinity.

IT 179259-18-8P 179259-19-9P

RL: BPR (Biological process); BSU (Biological study, unclassified); PRP (Properties); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); PROC (Process)

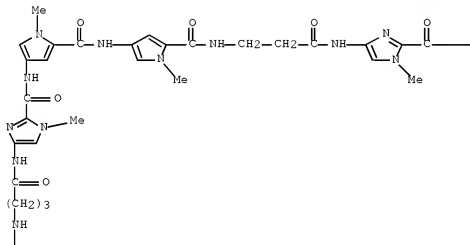
(extended hairpin polyamide motif for sequence-specific recognition in

the minor groove of DNA)

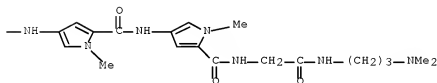
RN 179259-18-8 HCAPLUS

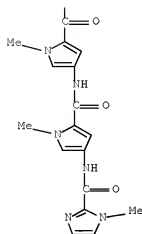
CN 1H-Imidazole-2-carboxamide, N-[5-[[[5-[[[3-[[2-[[[5-[[[5-[[[2-[[3-(dimethylamino)propyl]amino]-2-oxoethyl]amino]carbonyl]-1-methyl-1H-pyrrol-3-yl]amino]carbonyl]-1-methyl-1H-pyrrol-3-yl]amino]carbonyl]-1-methyl-1H-imidazol-4-yl]amino]-3-oxopropyl]amino]carbonyl]-1-methyl-1H-pyrrol-3-yl]amino]carbonyl]-1-methyl-1H-pyrrol-3-yl]-1-methyl-4-[[4-[[[1-methyl-4-[[[1-methyl-1H-imidazol-2-yl]carbonyl]amino]-1H-pyrrol-2-yl]carbonyl]amino]-1H-pyrrol-2-yl]carbonyl]amino]-1-oxobutyl]amino]- (CA INDEX NAME)

PAGE 1-A



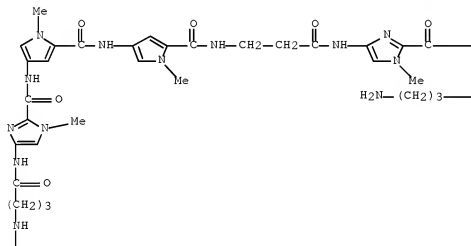
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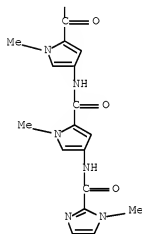
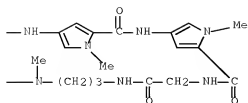




RN 179259-19-9 HCAPLUS

CN 1H-Imidazole-2-carboxamide, N-[5-[[[5-[[[3-[[2-[[[5-[[[5-[[[2-[[[3-[[[3-aminopropyl)methylamino]propyl]amino]-2-oxoethyl]amino]carbonyl]-1-methyl-1H-pyrrol-3-yl]amino]carbonyl]-1-methyl-1H-pyrrol-3-yl]amino]carbonyl]-1-methyl-1H-imidazol-4-yl]amino]-3-oxopropyl]amino]carbonyl]-1-methyl-1H-pyrrol-3-yl]amino]carbonyl]-1-methyl-1H-pyrrol-3-yl]-1-methyl-4-[[4-[[[1-methyl-4-[[[1-methyl-4-[[[1-methyl-1H-imidazol-2-yl]carbonyl]amino]-1H-pyrrol-2-yl]carbonyl]amino]-1H-pyrrol-2-yl]carbonyl]amino]-1-oxobutyl]amino]- (CA INDEX NAME)





L29 ANSWER 13 OF 16 WPIX COPYRIGHT 2009 THOMSON REUTERS on STN
 DUPLICATE 1
 ACCESSION NUMBER: 2009-J22672 [35] WPIX
 TITLE: New pyrrolobenzodiazepine derivative useful for in
 medical treatment or for treating a disease or condition
 ameliorated by the down-regulation of the androgen
 receptor e.g. prostate cancer
 B02
 DERWENT CLASS: HOWARD P; MASTERSON L; ROFFEY J
 INVENTOR: (SPIR-N) SPIROGEN LTD
 PATENT ASSIGNEE: 122
 COUNTRY COUNT:
 PATENT INFO ABBR.:

PATENT NO	KIND DATE	WEEK	LA	PG	MAIN IPC
WO 2009060208	A1 20090514	(200935)*	EN	118	[4]

APPLICATION DETAILS:

PATENT NO	KIND	APPLICATION	DATE
WO 2009060208 A1		WO 2008-GB3757	20081107

PRIORITY APPLN. INFO: GB 2007-22088 20071109

AB WO 2009060208 A1 UPAB: 20090604

NOVELTY - Pyrrolobenzodiazepine (PBD) derivative is new.

DETAILED DESCRIPTION - Pyrrolobenzodiazepine (PBD) derivative of formula (I) is new.

a'=optional presence of a double bond;

R2=-H, -OH, =O, =CH2, -CN, -R, OR, halo, =CH-R, O-SO2-R, CO2R or COR;

R7=H, R, OH, OR, SH, SR, NH2, NHR, NRR', nitro, Me3Sn or halo;

R,R'=1-7C alkyl, 3-20C heterocyclyl and 5-20C aryl (all optionally substituted);

R10,R11=H or Y1Ry;or

R10+R11=double bond;

Y1=O, S or NH;

Ry=H or 1-7C alkyl; or H and SOxM1;

x=2 or 3;

M1=monovalent cation;

X=5-6C heteroarylene;

n=1-6C.

An INDEPENDENT CLAIM is included for an precursor pyrrolobenzodiazepine compound of formula (II).

R10a=nitrogen protecting group;

R11a=OH or OProt';

Pro'=hydroxy protecting group.

ACTIVITY - Cytostatic.

MECHANISM OF ACTION - Androgen receptor (AR) blocker; AR mRNA

transcription inhibitor. Efficacy of test compound for selective inhibition of AR mRNA transcription was carried out using RNA extraction and quantitation and cDNA generation assay in LNCaP-FGC prostate carcinoma cells, seeded into six-well plates in which the test compound was added at 1 μM and incubated for 24 hours. The results showed that the expression on AR was only 0.0008-fold.

USE - In medical treatment; in the manufacture of a medicament for treating a disease or condition ameliorated by the down-regulation of the Androgen Receptor selected from prostate cancer (all claimed).

AN.S DCR-2045657

SDCN RB2E2Q

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AN.S DCR-2045669

SDCN RB2E32

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

'HITSTR' IS NOT A VALID FORMAT

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or the STNGUIDE file for information on formats available in individual files.

REENTER DISPLAY FORMAT FOR ALL FILES (FILEDEFAULT):IBIB AB QHIT

L29 ANSWER 14 OF 16 MARPAT COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 149:549619 MARPAT Full-text

TITLE: DNA-binding polyamides, targeting steroid response elements and disrupting gene regulation, and therapeutic uses for treating human diseases

INVENTOR(S): Dervan, Peter B.; Nickols, Nicholas G.

PATENT ASSIGNEE(S): California Institute of Technology, USA

SOURCE: PCT Int. Appl., 88pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2008133877	A1	20081106	WO 2008-US5184	20080422
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RW:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, NO, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
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PRIORITY APPLN. INFO.:

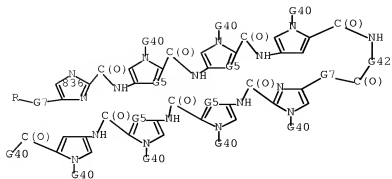
US 2007-926080P 20070423

AB The present invention relates to polyamide compns. (I; X = CH, N, COH; each pyrrole may be replaced with β -alanine; R2 = H, C1-10-alkyl, C1-10-alkenyl, C1-10-alkynyl, etc.; R3 may be linked to R4 and R1 may be linked to R5 by NHCH2CH(R7)CH(R8)CO, NH CH(R9)CO, NHCH2CH2CO; (R1-4 are further specified); R7-9 = H, NH2, NHCOCCH3, etc.; p = 0, 1) capable of inhibiting gene regulation modulated by androgen, glucocorticoid and estrogen response elements in a cell. Polyamides of the invention are capable of entering a cell, binding to ARE, GRE and ERE in the genome, and inhibiting binding of other mols. to these elements. The invention also relates to methods to treat diseases related to ARE-, GRE- and ERE-mediated gene regulation.

MSTR 1A

G2
G1

G1 = 836

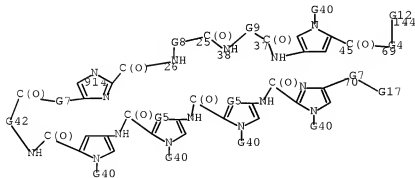


G5 = CH
 G7 = NH
 G42 = alkylene <containing 1 or more C> (opt. substd.)
 Patent location: claim 1
 Note: additional derivatization also claimed
 Note: substitution is restricted

MSTR 1B

G2
 G1

G1 = 914



G5 = CH
 G7 = NH
 G8 = 79

G3 G40

G38 = 10-26 7-25 8-12



G42 = alkylene <containing 1 or more C> (opt. substd.)

Patent location: claim 1

Note: additional derivatization also claimed

Note: substitution is restricted

REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L29 ANSWER 15 OF 16 MARPAT COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 139:276894 MARPAT Full-text

TITLE: Preparation of hairpin-type pyrrole-imidazole
polyamides as anticancer agents

INVENTOR(S): Sugiyama, Hiroshi; Bando, Toshikazu; Saito, Isao

PATENT ASSIGNEE(S): Japan Science and Technology Corporation, Japan

SOURCE: PCT Int. Appl., 46 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

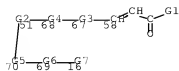
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003076412	A1	20030918	WO 2003-JP2423	20030303
W: US				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR				
JP 2003261541	A	20030919	JP 2002-63608	20020308
JP 3898532	B2	20070328		
EP 1491534	A1	20041229	EP 2003-707192	20030303
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, SK				
US 20050176647	A1	20050811	US 2004-507004	20040908
US 7456294	B2	20081125		

PRIORITY APPLN. INFO.: JP 2002-63608 20020308
WO 2003-JP2423 20030303

AB It is intended to provide a pyrrole-imidazole polyamide type functional mol. having enhanced abilities of alkylating DNA and recognizing a sequence, compared with the existing functional mols. of this type, for a specific base sequence occurring on DNA. Hairpin polyamides have an alkylation site via a vinyl linker at the end of a pyrrole-imidazole polyamide and are represented by general formula (I; R1 = a site for alkylation reaction; R2 = H, alkyl, acetamido; p, pl, q, m, n = an integer). Disclosed are drugs for inhibiting the expression of a specific gene and anticancer agents containing the above hairpin polyamide. For example, I (m = p = pl = 1, n = 2, q = 3, R1 = q) selectively alkylated A of the GTCA sequence of DNA (pUC-I'). The compds. I were tested for inhibiting the proliferation of various cancer cells.

MSTR 1.



G2 = (1-10) CH2
 G3 = (1-5) 48-68 35-58



G4 = (1-5) 54-51 43-67



G5 = (1-5) 50-51 5-69



Patent location: claim 2

REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L29 ANSWER 16 OF 16 MARPAT COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 137:353318 MARPAT Full-text

TITLE: Preparation of distamycin- and netropsin-related halothienyl compounds as antibiotics and DNA binders

INVENTOR(S): Ge, Yigong; Taylor, Matthew J.; Baird, Eldon E.; Burli, Roland W.; Kaizerman, Jacob A.; Martin, Amanda E.; Cadman, Brie

Serial No.:10/570,159

PATENT ASSIGNEE(S): Genesoft, Inc., USA
 SOURCE: PCT Int. Appl., 64 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002088119	A1	20021107	WO 2002-US13199	20020424
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
AU 2002254733	A1	20021111	AU 2002-254733	20020424
US 20030130198	A1	20030710	US 2002-132887	20020424
US 7122626	B2	20061017		
US 20060287247	A1	20061221	US 2006-446598	20060602
US 7498405	B2	20090303		
PRIORITY APPLN. INFO.:			US 2001-286454P	20010426
			US 2002-132887	20020424
			WO 2002-US13199	20020424

AB Halogen-substituted thienyl compds. Th-D1-Ym-B5R20p [Th = halo-substituted 2- or 3-thienyl which may also have substituents OH, NO₂, (un)substituted (hetero)alkyl; D1 = a bond, (un)substituted alkylene, SO, SO₂; Y = NH-L-C(:B1), where L is an unsatd., 5-membered heterocycle (the heteroatom may be O, S, or N), NHCH₂(CHR15)_n (n = 0 or 1, R15 = H, OH, NH₂, or F), or a divalent moiety separating NH and C:B1 by 3 or 4 atoms and B1 = O, S, or NH; m = 2-25; B5R20p = OB20 or NB202, where B20 = H, (un)substituted (hetero)alkyl] were prepared as potential nucleic acid (especially double stranded DNA) binders and as antibiotics. Thus, 3-chloro-2-thienoyl polyamide I was prepared via step-wise couplings and showed MIC ≤ 4 µg/mL for inhibition of *S. Aureus*, *E. Faecalis*, *B. cereus*, and *S. Pneumoniae*. A number of compds. of the invention were screened for their ability to bind to three DNA sites (binding data tabulated).

MSTR 1B

G1—G3—G7—G4

G3 = bond
 G7 = (4-5) 10-2 12-4



G8 = O
 G9 = 14-10 17-12 / 48-10 49-12



G10 = N / 29



G11 = 31



Patent location: claim 1
 Note: and pharmaceutically acceptable acid addition salts
 Note: substitution is restricted
 Note: additional G7 repeating units also claimed

REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS
 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

Search History

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L1          1 SEA SPE=ON  ABB=ON  PLU=ON  US2006-570159/APPS

FILE 'REGISTRY' ENTERED AT 14:27:51 ON 06 JUL 2009
L2          11 SEA SPE=ON  ABB=ON  PLU=ON  (153348-04-0/BI OR 27072-45-3/BI
          OR 847860-70-2/BI OR 847891-90-1/BI OR 847891-91-2/BI OR
          847895-32-3/BI OR 847895-33-4/BI OR 847895-34-5/BI OR 847895-35
          -6/BI OR 847895-36-7/BI OR 847895-37-8/BI)

FILE 'REGISTRY' ENTERED AT 14:36:08 ON 06 JUL 2009
L3          STRUCTURE UPLOADED
L4          STRUCTURE UPLOADED
L5          0 SEA SSS SAM L4
L6          0 SEA SSS FUL L4
L7          STRUCTURE UPLOADED
L8          19 SEA SSS SAM L7
L9          0 SEA SPE=ON  ABB=ON  PLU=ON  L8 AND L2
L10         335 SEA SSS FUL L7
L11         1 SEA SPE=ON  ABB=ON  PLU=ON  L10 AND L2

FILE 'HCAPLUS' ENTERED AT 14:43:34 ON 06 JUL 2009
L12         22 SEA SPE=ON  ABB=ON  PLU=ON  L10
L13         13 SEA SPE=ON  ABB=ON  PLU=ON  L12 AND (PRY<=2004 OR AY<=2004 OR
          PD<=2004 OR PY<=2004)
L14         1632 SEA SPE=ON  ABB=ON  PLU=ON  FUKUDA N7/AU
L15         83 SEA SPE=ON  ABB=ON  PLU=ON  KISHIOKA H7/AU
L16         3217 SEA SPE=ON  ABB=ON  PLU=ON  SUGIYAMA H7/AU
L17         1 SEA SPE=ON  ABB=ON  PLU=ON  (L14 OR L15 OR L16) AND L13

FILE 'WPIX' ENTERED AT 14:46:08 ON 06 JUL 2009
L18         1 SEA SSS SAM L7
L19         6 SEA SSS FUL L7
L20         4 SEA SPE=ON  ABB=ON  PLU=ON  L19/DCR
L21         3 SEA SPE=ON  ABB=ON  PLU=ON  (L14 OR L15 OR L16) AND L20

FILE 'BEILSTEIN' ENTERED AT 14:47:05 ON 06 JUL 2009
L22         0 SEA SPE=ON  ABB=ON  PLU=ON  L10
L23         0 SEA SPE=ON  ABB=ON  PLU=ON  L10

FILE 'MARPAT' ENTERED AT 14:47:21 ON 06 JUL 2009
L24         0 SEA SSS SAM L7
L25         4 SEA SSS FUL L7

FILE 'HCAPLUS, WPIX' ENTERED AT 14:51:55 ON 06 JUL 2009
L26         3 DUP REM L17 L21 (1 DUPLICATE REMOVED)

FILE 'HCAPLUS' ENTERED AT 14:54:04 ON 06 JUL 2009
L27         12 SEA SPE=ON  ABB=ON  PLU=ON  L13 NOT L17

FILE 'WPIX' ENTERED AT 14:55:00 ON 06 JUL 2009
L28         1 SEA SPE=ON  ABB=ON  PLU=ON  L20 NOT L21

FILE 'HCAPLUS, WPIX, MARPAT' ENTERED AT 14:55:43 ON 06 JUL 2009
L29         16 DUP REM L27 L28 L25 (1 DUPLICATE REMOVED)

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